



Education Services Course Catalog

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Multiple Delivery Methods

To fit learners' schedules, we strive to use multiple delivery methods where possible. Here are the learning modalities offered:

- Traditional Classroom – In-person classroom training delivered by an instructor, with students in the same facility/room.
- Virtual Classroom – Live online instruction delivered by an instructor using Adobe Connect, Skype, video conference or other remote connection methods.
- Private Classroom – Contact an Education Account Manager for details.
- On Demand Class – Self-paced online modules on demand, accessible anytime, anyplace.
- On Demand Lab – Self-paced hands-on learning, includes access to the lab environment and materials to support the learning objectives.

Learning Accelerator Program

The Learning Accelerator Program is a comprehensive program that drives individual learning and closes the skills gaps that impede an organization's ability to adopt new technologies. It is a top-down consultative approach that defines a customer's learning needs, develops learning goals for each member of an organization, and aligns those learning goals to the organization's desired business outcomes. Our learning experts use proven methodologies to help customers realize the full value of their investments in both their technology and people. Contact an Education Account Manager or visit our website for more information.

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CI VxBlock

VxBlock

[VxBlock Administration](#)

This course covers administration and management aspects of the VxBlock System. It includes an overview of the architecture as well as introduces common administrative tasks that are performed using the various system element managers and Dell EMC VxBlock Central. This training is designed to enable participants to successfully complete hands-on activities for common VxBlock System administrative tasks.

Classroom	40 Hours	VCE-1CN-EMCVBAM
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[VxBlock Administration -Online ILT](#)

This course covers administration and management aspects of the VxBlock System. It includes an overview of the architecture as well as introduces common administrative tasks that are performed using the various system element managers and Dell EMC VxBlock Central. This training is designed to enable participants to successfully complete hands-on activities for common VxBlock System administrative tasks.

CI/HCI Flex & Solutions

CloudLink

[CloudLink Administration](#)

This course describes the common tasks performed when administering a CloudLink environment. It details how to manage users, roles, keys, agents, encrypted volumes, machines, and policies. The course also discusses disaster recovery as well as tools for monitoring and troubleshooting.

On Demand Class	02 Hours	MR-1WN-CL60AM
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[CloudLink Implementation](#)

This course describes the common tasks performed for implementing CloudLink with various design options align to requirements in a VMware and DellEMC VxFlex environments. It details how to deploy a single CloudLink Center and then go on to learn about deploying a cluster. The course also discusses how to install agents and perform a basic configuration to enable encryption. Finally, it covers the integration of VxFlex Manager with CloudLink.

On Demand Class	02 Hours	MR-1WN-CL65PI
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PowerFlex

[PowerFlex 3.6 Administration](#)

This course provides an overview of PowerFlex 3.6 and managing a PowerFlex System. It includes working with the MDM, SDS, SDC, volumes, adjusting cache, and administering the system. A deeper understanding of the architecture and components will be introduced, demonstrations and lab simulations complete the learning experience.

On Demand Class	05 Hours	ES102CPX01822
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[PowerFlex 3.6 Implementation](#)

This course provides a complete view of installing, upgrading, expanding a PowerFlex and Ready Node system. Installation methods for Linux and ESXi environments are introduced and you will perform hands-on expansion and upgrade of a PowerFlex cluster. Simulations and video demonstrations are also provided for a complete learning experience.

On Demand Class	01 Hours 30 Minutes	ES102CPX01821
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[Powerflex 3.6 Implementation and Administration](#)

Virtual Class	40 Hours	VCE-1LN-EMCVBAM
Classroom	40 Hours	VCE-1LN-EMCVBAM

[VxBlock Converged Management Software Implementation](#)

This course presents the installation and implementation of VxBlock Converged Management Software (CMS). It covers CMS architecture overview, deployment requisites, and deployment procedures. Interactive simulations are used in the course to provide a step-by-step walkthrough of the deployment procedures.

On Demand Class	04 Hours	ESCPXD00919
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[VxBlock System Administration Using VxBlock Central Workflow Automation](#)

This course presents the administration of the VxBlock System using the VxBlock Central Workflow Automation. It covers post-deployment validation, workflow examples, and basic troubleshooting. The course uses interactive simulation-based activities to provide a step-by-step walkthrough of key administration tasks.

On Demand Class	01 Hours	ESCPXD02240
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This course provides a complete view of installing, upgrading, expanding a PowerFlex and Ready Node system. Installation methods for Linux and ESXi environments are introduced and you will perform hands-on installation and upgrade of a PowerFlex cluster. It also includes working with the MDM, SDS, SDC, volumes, adjusting cache, and administering the system. A deeper understanding of the architecture and components will be introduced. Labs, simulations, and video demonstrations are also provided for a complete learning experience

Virtual Class	32 Hours	ES102CPX01905
Classroom		ES102CPX01905

PowerFlex appliance

[PowerFlex appliance and PowerFlex Manager 3.7 Administration](#)

This course provides an overview of the PowerFlex appliance solution and details how PowerFlex Manager is used as a centralized configuration and management tool. Covered topics include a deeper dive into the appliance architecture as well as common tasks used to administer storage, compute, and network resources. Lab demonstrations and simulations are included to reinforce the learning experience.

On Demand Class	04 Hours 30 Minutes	ES102CPX01935
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[PowerFlex Manager 3.7 Installation and Implementation](#)

This course introduces the PowerFlex Manager 3.7 installation and implementation process. The process covers the pre-installation checklist, the install process, the initial software configuration, the getting started implementation process, finalizing the implementation, and upgrading the software and components.

On Demand Class	01 Hours	ES502CPX01963
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PowerFlex rack

[PowerFlex rack Administration](#)

This course focuses on PowerFlex rack administration and management tasks. It presents tools and processes for monitoring, configuring, and maintaining the PowerFlex rack system.

Classroom	24 Hours	ES114CPX00065
Virtual Class	24 Hours	ES114CPX00065

[PowerFlex rack Administration](#)

This course focuses on PowerFlex rack administration and management tasks. It presents tools and processes for monitoring, configuring, and maintaining the PowerFlex rack system.

On Demand Class	08 Hours	ES133CPX00069
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[PowerFlex rack RCM Upgrades](#)

Client

Client Systems

[Dell Client Systems Deployment and Implementation](#)

Become more efficient in deploying Dell client systems. This course is designed to walk you through pre-deployment procedures, physical device setup, recording asset information, running deployment setup scripts and retired asset management. You will learn procedures such as verifying equipment against the work order and checking the conditions of the equipment. This course along with the Dell Client Support and Troubleshooting course will help you prepare for the Implementing Dell Client System s exam.

On Demand Class		DESNOLT-706-12769
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[Dell Client Systems Deployment and Implementation](#)

Become more efficient in deploying Dell client systems. This course is designed to walk you through pre-deployment procedures, physical device setup, recording asset information, running deployment setup scripts and retired asset management. You will learn procedures such as verifying equipment against the work order and checking the conditions of the equipment. This course along with the Dell Client Support and Troubleshooting course will help you prepare for the Implementing Dell Client System s exam.

On Demand Class		DESNOLT-812-3530
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[Dell Client Systems Deployment and Implementation](#)

Become more efficient in deploying Dell client systems. This course is designed to walk you through pre-deployment procedures, physical device setup, recording asset information, running deployment setup scripts and retired asset management. You will learn procedures such as verifying equipment against the work order and checking the conditions of the equipment. This course along with the Dell Client Support and Troubleshooting course will help you prepare for the Implementing Dell Client System s exam.

On Demand Class		DESNOLT-812-3532
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[Dell Client Systems Deployment and Implementation](#)

Become more efficient in deploying Dell client systems. This course is designed to walk you through pre-deployment procedures, physical device setup, recording asset information, running deployment setup scripts and retired asset management. You will learn procedures such as verifying equipment against the work order and checking the conditions of the equipment. This course along with the Dell Client Support and Troubleshooting course will help you prepare for the Implementing Dell Client System s exam.

On Demand Class		DESNOLT-706-12775
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[Dell Client Systems Deployment and Implementation](#)

Become more efficient in deploying Dell client systems. This course is designed to walk you through pre-deployment procedures, physical device setup, recording asset information, running deployment setup scripts and retired asset management. You will learn procedures such as verifying equipment against the work order and checking the conditions of the equipment. This course along with the Dell Client Support and Troubleshooting course will help you prepare for the Implementing Dell Client System s exam.

On Demand Class		DESNOLT-812-3531
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This course outlines the process for conducting a PowerFlex rack RCM upgrade.

On Demand Class	02 Hours	ES502CPX01942
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New Hire Client

[Dell Client Systems Support and Troubleshooting](#)

This course provides you with basic troubleshooting steps to resolve issues when deploying client systems. Topics include troubleshooting hardware, network connectivity, setup, data migration, and data wiping. Recommended along with the Dell Client Systems Deployment and Implementation course, this training helps prepare you for the Implementing Dell Client Systems authorization exam.

On Demand Class		DESNOLT-812-3533
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[Dell Client Systems Support and Troubleshooting](#)

This course provides you with basic troubleshooting steps to resolve issues when deploying client systems. Topics include troubleshooting hardware, network connectivity, setup, data migration, and data wiping. Recommended along with the Dell Client Systems Deployment and Implementation course, this training helps prepare you for the Implementing Dell Client Systems authorization exam.

On Demand Class		DESNOLT-706-12770
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[Dell Client Systems Support and Troubleshooting](#)

This course provides you with basic troubleshooting steps to resolve issues when deploying client systems. Topics include troubleshooting hardware, network connectivity, setup, data migration, and data wiping. Recommended along with the Dell Client Systems Deployment and Implementation course, this training helps prepare you for the Implementing Dell Client Systems authorization exam.

On Demand Class		DESNOLT-812-3534
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[Dell Client Systems Support and Troubleshooting](#)

This course provides you with basic troubleshooting steps to resolve issues when deploying client systems. Topics include troubleshooting hardware, network connectivity, setup, data migration, and data wiping. Recommended along with the Dell Client Systems Deployment and Implementation course, this training helps prepare you for the Implementing Dell Client Systems authorization exam.

On Demand Class		DESNOLT-706-12776
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[Dell Client Systems Support and Troubleshooting](#)

This course provides you with basic troubleshooting steps to resolve issues when deploying client systems. Topics include troubleshooting hardware, network connectivity, setup, data migration, and data wiping. Recommended along with the Dell Client Systems Deployment and Implementation course, this training helps prepare you for the Implementing Dell Client Systems authorization exam.

On Demand Class		DESNOLT-812-3535
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Data Protection

Avamar

[Avamar Administration](#)

This course explains and demonstrates configuration and use of Avamar. Students learn how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation.

Virtual Class	32 Hours	MR-1LP-AVAM635
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[Avamar Administration](#)

This course explains and demonstrates configuration and use of Avamar. Students learn how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation.

Classroom	32 Hours	MR-1CP-AVAM635
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[Avamar Implementation](#)

This lab demonstrates the deployment of Avamar. Students learn how to deploy Avamar Virtual Edition; how to upgrade all models of Avamar to the latest release; and how to configure and prepare Avamar for administration.

On Demand Lab	24 Hours	ES102DPS01702
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[Avamar Implementation and Administration](#)

This course explains and demonstrates the deployment, configuration, and use of Avamar. Students learn how to deploy Avamar Virtual Edition; how to upgrade all models of Avamar to the latest release; how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation. This course includes labs to reinforce these skills through exercises

Classroom	40 Hours	MR-7CP-AVAM633
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[Avamar Integration](#)

This course explains and demonstrates the integration of Avamar with different applications, databases, and virtual machine hosts. Students learn operational best practices with a focus on configuring and performing backup and recovery of file systems, applications and databases. This course includes labs to reinforce these skills through exercises.

Classroom	40 Hours	MR-1CP-AVAIPM
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[Avamar Integration](#)

This course explains and demonstrates the integration of Avamar with different applications, databases, and virtual machine hosts. Students learn operational best practices with a focus on configuring and performing backup and recovery of file systems, applications and databases. This course includes labs to reinforce these skills through exercises.

Virtual Class	40 Hours	MR-1LP-AVAIPM
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[Avamar Integration with Hyper-V](#)

This course explains and demonstrates the integration of Avamar with Hyper-V. Students learn operational best practices with a focus on configuring and performing backup and recovery of virtual machines.

On Demand Class	01 Hours	ES103DPS01524
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[Avamar Integration with IBM DB2](#)

This course explains and demonstrates the integration of Avamar with DB2. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01518
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[Avamar Integration with Microsoft SQL Server](#)

This course explains and demonstrates the integration of Avamar with Microsoft SQL Server. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01510
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[Avamar Integration with Microsoft SQL Server](#)

This lab demonstrates the integration of Avamar with Microsoft SQL Server. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases.

On Demand Lab	01 Hours 30 Minutes	ES103DPS01511
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[Avamar Integration with Oracle](#)

This lab demonstrates the integration of Avamar with Oracle. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases

On Demand Lab	01 Hours	ES103DPS01517
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[Avamar Integration with Oracle](#)

This course explains and demonstrates the integration of Avamar with Oracle. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01516
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[Avamar Integration with SharePoint](#)

This course explains and demonstrates the integration of Avamar with SharePoint. Students learn operational best practices with a focus on configuring and performing backup and recovery of SharePoint. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	02 Hours	ES103DPS01512
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[Avamar Integration with SharePoint](#)

This lab demonstrates the integration of Avamar with SharePoint. Students learn operational best practices with a focus on configuring and performing backup and recovery of SharePoint.

On Demand Lab	01 Hours	ES103DPS01513
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[Avamar Integration with VMware](#)

This course explains and demonstrates the integration of Avamar with VMware. Students learn operational best practices with a focus on configuring and performing backup and recovery of virtual machines. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	02 Hours 30 Minutes	ES103DPS01522
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[Avamar Integration with VMware](#)

This lab demonstrates the integration of Avamar with VMware. Students learn operational best practices with a focus on configuring and performing backup and recovery of virtual machines.

On Demand Lab	01 Hours 30 Minutes	ES103DPS01523
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[Avamar Performance](#)

This course explains and demonstrates techniques for managing the performance of Avamar. Students learn Avamar performance management procedures and best practices.

On Demand Class	03 Hours	ES103DPS01526
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[Avamar Virtual Edition Overview](#)

This course provides participants with the knowledge and skills to describe the Avamar Virtual Edition product, its requirements, and installation.

On Demand Class	01 Hours	MR-1WN-AVAM136
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[Dell Avamar Administration](#)

This course explains and demonstrates configuration and use of Avamar. Students learn how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	07 Hours 30 Minutes	ES102DPS01502
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[Dell Avamar Administration](#)

This lab demonstrates configuration and use of Avamar. Students learn how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation

On Demand Lab	08 Hours	ES102DPS01701
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[Dell Avamar Concepts](#)

This course explains the purpose and use of Dell Avamar. Students identify Avamar system components; describe the deduplication process and integrated products.

On Demand Class	01 Hours 30 Minutes	MR-1WN-AVAM
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[Dell Avamar Implementation and Administration](#)

This course explains and demonstrates the deployment, configuration, and use of Avamar. Students learn how to deploy Avamar Virtual Edition; how to upgrade all models of Avamar to the latest release; how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation. This course includes labs to reinforce these skills through exercises.

Virtual Class	40 Hours	MR-7LP-AVAM633
Classroom	40 Hours	MR-7LP-AVAM633

[Dell Avamar Integration with Microsoft Exchange](#)

This lab demonstrates the integration of Avamar with Microsoft Exchange. Students learn operational best practices with a focus on configuring and performing backup and recovery of Microsoft Exchange.

On Demand Lab	01 Hours 30 Minutes	ES103DPS01509
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[Dell Avamar Integration with Microsoft Exchange](#)

This course explains and demonstrates configuration and the use of Avamar with Microsoft Exchange. Students learn how to configure the Avamar Exchange VSS plugin for performing backups and recoveries. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 15 Minutes	ES103DPS01508
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[Dell Avamar Integration with NDMP](#)

This course explains and demonstrates the integration of Avamar with NDMP. Students learn operational best practices with a focus on configuring and performing backup and recovery of files and file systems. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01520
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[Dell Avamar Integration with NDMP](#)

This lab demonstrates the integration of Avamar with NDMP. Students learn operational best practices with a focus on configuring and performing backup and recovery of files and file systems.

On Demand Lab	01 Hours	ES103DPS01521
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[Dell Avamar Virtual Edition Implementation](#)

This course explains and demonstrates the deployment of Avamar. Students learn how to deploy Avamar Virtual Edition; how to upgrade all models of Avamar to the latest release; and how to configure and prepare Avamar for administration.

On Demand Class	02 Hours	ES102DPS01503
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[DECS-SA Avamar Administration ILT Training - Package](#)

This package of training explains and demonstrates configuration and use of Avamar. Students learn how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

This package includes the following courses:

- Dell Avamar Concepts(On Demand Class, 01 Hours 30 Minutes)
- Dell Avamar Implementation and Administration(Virtual Class, 40 Hours|Classroom, 40 Hours)
- Avamar Administration(Virtual Class, 32 Hours)
- Avamar Administration(Classroom, 32 Hours)

[Cloud Disaster Recovery](#)

[Data Domain Cloud Disaster Recovery \(DDCDR\) Administration - On-Demand Course](#)

This course provides an understanding of the use and management underlying DDCDR.

On Demand Class	02 Hours 30 Minutes	ES132DPS00487
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[Dell Cloud Disaster Recovery Administration](#)

This course provides an understanding of the use and management of Dell Cloud Disaster Recovery (Cloud DR) administration. The purpose of this course is to describe Cloud DR administrative operations in supported environments.

On Demand Class	02 Hours	ESDPSD03037
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[Dell Cloud Disaster Recovery Concepts and Features](#)

The Dell Cloud Disaster Recovery Concepts and Features course provides an overview of the Cloud DR product

On Demand Class	30 Minutes	ES131DPS00485
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[Dell EMC Cloud Disaster Recovery Implementation](#)

This course provides a technical overview of Dell EMC Cloud Disaster Recovery (Cloud DR) implementation operations. The purpose of this course is to describe Cloud DR deployment and configuration in supported environments

On Demand Class	01 Hours 30 Minutes	ES132DPS00486
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[Cloud Snapshot Manager](#)

[PowerProtect Cloud Snapshot Manager Concepts](#)

This course is designed to provide the learners an overview of Dell EMC PowerProtect Cloud Snapshot Manager. The course discusses concepts and capabilities of Cloud Snapshot Manager.

On Demand Class	01 Hours	ES101DPS01714
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[Cyber Recovery](#)

[Cyber Recovery Solution Architectural Concepts](#)

This course is intended for anyone interested in understanding the architecture of the Cyber Recovery solution. High level concepts and an understanding of requirements for implementing the solution will be covered. Additionally different architecture implementations for Data Domain will be explored.

On Demand Class	45 Minutes	MR-7WN-IRSARCH
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[Dell PowerProtect Cyber Recovery Administration](#)

This course covers management of PowerProtect Cyber Recovery. The course contains the steps to manage storage and applications, policies, copies, and sandboxes. The course also covers recovery operations with Dell PowerProtect Data Manager, Dell NetWorker, and Dell Avamar. Security considerations and additional administrative tasks are also covered.

On Demand Class	03 Hours	ES102DPS01853
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[Dell PowerProtect Cyber Recovery Concepts](#)

This course demonstrates the problem Cyber Recovery is designed to solve. The concept of data recovery, an overview of the solution and benefits, and basic architecture of Cyber Recovery are also covered. The operation, management tools, and documentation are visited.

On Demand Class	01 Hours 30 Minutes	ES131DPS00253
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[Dell PowerProtect Cyber Recovery Features](#)

This course provides an understanding of how PowerProtect Cyber Recovery and CyberSense works. This course covers the ways of managing the solution and the cloud platforms to host it. Storage, applications, policies, and copies are described. Security, monitoring, and the concept of Sheltered Harbor are introduced

On Demand Class	02 Hours	ES131DPS00255
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[Managing CyberSense Alerts Recorded Knowledge Transfer](#)

This session describes how CyberSense monitors a Cyber Recovery vault and how users should manage the resulting alerts.

On Demand Class	55 Minutes	ESDPSD00261
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[PowerProtect Cyber Recovery Administration](#)

This on-demand lab explores scenarios based on the Cyber Recovery Administration course. The session provides a lab environment where participants can validate skills and concepts covered in the course. During this lab session participants will explore different Cyber Recovery operations like Sandbox creation, health checks, hardening the environment, multi-factor authentication, and other maintenance activities. In this on-demand lab, participants will also perform backup and restore Cyber Recovery and CyberSense configurations, analyzing copies using CyberSense, configure PPDM and NetWorker vaults and client recoveries. Access to this On-Demand lab environment will be granted for 36 hours to complete this 6-hours-long lab

On Demand Lab	06 Hours	ESDPSD03594
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[PowerProtect Cyber Recovery Design](#)

This course covers design of PowerProtect Cyber Recovery and CyberSense. The course contains important considerations when planning and designing a solution. Different consulting services for Dell Technologies are introduced. Considerations and limitations are also covered. The steps to correctly plan and size a solution, and harden the solution are also covered.

On Demand Class	03 Hours	ES102DPS01855
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[PowerProtect Cyber Recovery Design and Administration](#)

This course covers the concepts, features, management and design of PowerProtect Cyber Recovery and CyberSense. The course contains the steps to manage storage and applications and policies, copies, and sandboxes. The course also covers recovery operations with PPDM, NetWorker, and Avamar. Security considerations and additional administrative tasks are also covered.

Classroom	16 Hours	ESDPSS03390
Virtual Class	16 Hours	ESDPSS03390

[PowerProtect Cyber Recovery Troubleshooting](#)

This course focuses on troubleshooting the Cyber Recovery solution. The course introduces to Cyber Recovery workflows, architecture and services along with common troubleshooting techniques that help you troubleshoot a Cyber Recovery solution. The course also provides learning experiences covering Cyber Recovery and Cyber Sense problem identification, collecting log files, alerts, main system components issues, cause identification and possible resolutions.

On Demand Class	01 Hours 45 Minutes	ES131DPS00257
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[PowerProtect Cyber Recovery On-Demand Training - Package](#)

Enhancing your Cyber Recovery posture and ensuring you have a Cyber Recovery skillset is important now more than ever. This package offers knowledge on PowerProtect Cyber Recovery product. Learners will acquire skills to be able to understand PowerProtect Cyber Recovery concepts, features, administration, design, and Troubleshooting. This package also offers knowledge on CyberSense to Learners.

This package includes the following courses:

- Dell PowerProtect Cyber Recovery Administration (On Demand Class, 03 Hours)

[Data Domain](#)

[Cloud Tier Implementation and Administration](#)

This course provides students with an understanding of how to install, configure, and manage Dell EMC Cloud Tier with PowerProtect DD appliances. Throughout the course, the features and capabilities of Cloud Tier as well as recommended best practices are discussed

On Demand Class	02 Hours	MR-1WP-DDCTIM
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[Dell PowerProtect DD Hardware Installation](#)

This course provides the knowledge and skills needed for installing PowerProtect DD appliances. The course provides learning experiences covering hardware installation, cabling and connections, and initial configuration of system software for network connectivity, administrative access, and verification of interoperability with connected devices.

On Demand Class	04 Hours	MR-1WP-DDHINSTL
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[PowerProtect DD Cloud Enablement Implementation](#)

This course provides an understanding in how PowerProtect DD can be leveraged in a public or private cloud. The course shows how you can enhance on-premises data protection using cloud resources. It also demonstrates how to design full data protection solutions in a cloud environment or across multiple cloud providers.

On Demand Class	02 Hours 30 Minutes	MR-1WN-DDCLEN
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[PowerProtect DD Concepts and Features](#)

The PowerProtect DD Concepts and Features course provides students with basic foundation knowledge of PowerProtect DD products. The course introduces topics covered in greater detail in other PowerProtect DD courses. The course includes the following topics:• The PowerProtect DD product line and common hardware features• PowerProtect DD architecture and technology overview• DD Operating System (DDOS) features and capabilities• PowerProtect DD Management Overview

On Demand Class	01 Hours 30 Minutes	MR-1WP-DDFUND
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[PowerProtect DD Implementation with Application Software](#)

PowerProtect DD Implementation with Application Software course provides the knowledge to identify key application software components and terminology, recovery functionalities, and implementation of best practices and tuning. This course includes integration of a PowerProtect DD appliance using CIFS, NFD, DD Boost and VTL to common backup applications.

On Demand Class	02 Hours 30 Minutes	MR-1WP-DDIAS
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[PowerProtect DD System Administration](#)

The PowerProtect DD System Administration course provides the knowledge and skills needed for configuring and maintaining PowerProtect DD systems. The course provides lectures, instructor demonstrations, hands-on exercises, reviews, knowledge checks, and pointers to further study.

Classroom	32 Hours	MR-1CP-DDSADMIN
Virtual Class		MR-1CP-DDSADMIN

[PowerProtect DD System Administration](#)

The PowerProtect DD System Administration course provides the knowledge and skills needed for configuring and maintaining PowerProtect DD systems. The course provides lectures, instructor demonstrations, hands-on exercises, reviews, knowledge checks, and pointers to further study.

Virtual Class	32 Hours	MR-1LP-DDSADMIN
Classroom	32 Hours	MR-1LP-DDSADMIN

[PowerProtect DD System Administration](#)

The PowerProtect DD System Administration course provides the knowledge and skills needed for configuring and maintaining PowerProtect DD systems. The course provides online presentation, videos and demos, reviews, knowledge checks, and pointers to further study. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	22 Hours	ESDPSD02523
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[PowerProtect DD System Administration Lab](#)

This on-demand lab explores scenarios based on the PowerProtect DD System Administration course. The session does not cover concepts, but rather provides a lab environment where participants can validate skills and concepts covered in the course. During this lab session, participants will set up and configure a PowerProtect DD system. Also, participants will upgrade a PowerProtect DD system to the latest DDOS version. Access to this On-Demand lab will be granted for 3days to complete this 6- hours lab.

On Demand Lab	06 Hours	MR-1ON-DDSAODL-NA
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[PowerProtect DD Virtual Edition Implementation](#)

This course focuses on Dell EMC PowerProtect DD Virtual Edition, both in the Cloud and on-premises. It provides instruction and demonstration explaining DDVE benefits, features, and functionality. The course includes knowledge check questions for each focus area and assessment questions for the entire course to reinforce the training.

On Demand Class	04 Hours	ES132DPS00179
Virtual Class		ES132DPS00179

[PowerProtect DD3300 Concepts](#)

The Dell EMC PowerProtect DD3300 Concepts course describes keycomponents, supported features and capabilities, and available options ofthe DD3300 appliance.

On Demand Class	01 Hours	MR-1WN-DD33OVR
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[Data Protection Advisor \(DPA\)](#)

[Data Protection Advisor \(DPA\) Administration for the Backup Operator](#)

This course explains and demonstrates how to use Data Protection Advisor. Students learn how to generate reports, interpret reports, and how to perform basic customization of dashboards and reports. Optionally, the Data Protection Advisor Administration for the Backup Operator lab is an on-demand lab course that aligns with the content presented here to reinforce these skills through practice in a lab environment.

On Demand Class	03 Hours	ES101DPS01482
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[Dell Data Protection Advisor \(DPA\) Administration - Custom Reports](#)

This course explains and demonstrates how to create custom reports using Data Protection Advisor. Students learn how to access and use Data Protection Advisor data sources and external data sources, how to apply Data protection Advisor operators, and use Smart Groups. Additionally, the Dell Data Protection Advisor Administration – Custom Reports lab course aligns with the content to reinforce these skills through practice in a lab environment.

Virtual Class	16 Hours	MR-1LN-DPACRPT
Classroom		MR-1LN-DPACRPT

[Dell Data Protection Advisor \(DPA\) Administration - Custom Reports](#)

This course explains and demonstrates how to create custom reports using Data Protection Advisor. Students learn how to access and use Data Protection Advisor data sources and external data sources, how to apply Data protection Advisor operators, and use Smart Groups. Additionally, the Dell Data Protection Advisor Administration – Custom Reports lab course aligns with the content to reinforce these skills through practice in a lab environment.

Classroom	16 Hours	MR-1CN-DPACRPT
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[Dell Data Protection Advisor \(DPA\) Implementation and Administration](#)

This class explains and demonstrates the purpose, deployment, configuration, and use of Data Protection Advisor. Students learn key terms and concepts, the use cases Data Protection Advisor addresses, and the key features and functionalities of Data Protection Advisor. Students learn how to deploy the Data Protection Advisor components and how to configure Data Protection Advisor for operation. Students learn how to create and manage user accounts, how to configure backup components for reporting purposes and remote data collection configuration, and how to connect data sources to Data Protection Advisor. Students learn how to generate reports, interpret reports, and how to perform basic customization of dashboards and reports.

Classroom	24 Hours	MR-1CN-EBAIM
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[Dell Data Protection Advisor \(DPA\) Implementation and Administration](#)

This class explains and demonstrates the purpose, deployment, configuration, and use of Data Protection Advisor. Students learn key terms and concepts, the use cases Data Protection Advisor addresses, and the key features and functionalities of Data Protection Advisor. Students learn how to deploy the Data Protection Advisor components and how to configure Data Protection Advisor for operation. Students learn how to create and manage user accounts, how to configure backup components for reporting purposes and remote data collection configuration, and how to connect data sources to Data Protection Advisor. Students learn how to generate reports, interpret reports, and how to perform basic customization of dashboards and reports.

Virtual Class	24 Hours	MR-1LN-EBAIM2
Classroom		MR-1LN-EBAIM2

[Dell Data Protection Advisor Administration - Custom Reports](#)

This course explains and demonstrates how to create custom reports using Data Protection Advisor. Students learn how to access and use Data Protection Advisor data sources and external data sources, how to apply Data Protection Advisor operators, and use Smart Groups. Optionally, the Dell Data Protection Advisor Administration – Custom Reports lab is an on-demand lab course that aligns with the content presented here to reinforce these skills through practice in a lab environment.

On Demand Class	02 Hours 30 Minutes	ES103DPS01215
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[Dell Data Protection Advisor Administration - Custom Reports - Lab](#)

This lab demonstrates how to create custom reports using Data Protection Advisor (DPA). Students learn how to access and use DPA data sources and external data sources; how to apply DPA reporting operators and smart groups; and how to use advanced analysis and rules. Access to this On-Demand Lab will be granted for 24 hours to complete this 4hours lab.

On Demand Lab	04 Hours	ES103DPS01703
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[Dell Data Protection Advisor Administration for the Backup Operator](#)

This lab demonstrates how to use Data Protection Advisor (DPA). Students learn how to generate reports; how to interpret reports; and how to perform basic customization of dashboards and reports

On Demand Lab	04 Hours	ES101DPS01483
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[Dell Data Protection Advisor Administration for the Sys Admin](#)

This course explains and demonstrates how to configure Data Protection Advisor (DPA). Students learn how to create and manage user accounts; how to configure backup components for reporting purposes and remote data collection configuration; and how to connect data sources to DPA. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	05 Hours	ES102DPS01484
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[Dell Data Protection Advisor Administration for the Sys Admin - Lab](#)

This lab demonstrates how to configure Dell Data Protection Advisor. Students learn how to create and manage user accounts; how to configure backup components for reporting purpose; exporting and importing the datastore backup; and how to create analysis policy in Dell Data Protection Advisor. Access to this On-Demand Lab will be granted for 72 hours to complete this 2 hour lab.

On Demand Lab	02 Hours	ES102DPS01485
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[Dell Data Protection Advisor Concepts](#)

This course explains and demonstrates the purpose and use of Data Protection Advisor. Students learn key terms and concepts; the use cases Data Protection Advisor addresses; and the key features and functionalities of Data Protection Advisor.

On Demand Class	01 Hours 30 Minutes	MR-1WP-EBAFUN
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[Dell Data Protection Advisor Implementation](#)

This course explains and demonstrates the deployment of Data Protection Advisor (DPA). Students learn how to deploy the DPA components; how to upgrade DPA to the latest release; and how to configure DPA for operation. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	03 Hours	ES102DPS01214
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[Dell Data Protection Advisor Implementation - Lab](#)

This lab demonstrates the deployment of Data Protection Advisor. Students learn how to deploy the Data Protection Advisor components; how to upgrade Data Protection Advisor to the latest release; and how to configure Data Protection Advisor for operation. Access to this On-Demand Lab will be granted for 72 hours to complete this 4hours lab.

On Demand Lab	02 Hours	ES102DPS01704
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[Data Protection Advisor ILT Training - Package](#)

This package includes the on-demand version of Data Protection Advisor Concepts as well as the live online versions of the Data Protection Advisor Implementation and Administration and the Data Protection Advisor Administration – Custom Reports course. It is recommended that students consume the training in this same order

This package includes the following courses:

- Dell Data Protection Advisor (DPA) Implementation and Administration(Classroom, 24 Hours)
- Dell Data Protection Advisor (DPA) Implementation and Administration(Virtual Class, 24 Hours)(Classroom)
- Dell Data Protection Advisor (DPA) Administration - Custom Reports(Virtual Class, 16 Hours)(Classroom)
- Dell Data Protection Advisor Concepts(On Demand Class, 01 Hours 30 Minutes)
- Dell Data Protection Advisor (DPA) Administration - Custom Reports(Classroom, 16 Hours)

[Data Protection Advisor On-Demand Training - Package](#)

This package includes the on-demand versions of Data Protection Advisor Concepts, Data Protection Advisor Administration for the Sys Admin and lab, Data Protection Advisor Implementation and lab, and the Data Protection Advisor Administration - Custom Reports course and lab. Further, it is recommended that students consume the courses in this same order

This package includes the following courses:

- Dell Data Protection Advisor Concepts(On Demand Class, 01 Hours 30 Minutes)
- Dell Data Protection Advisor Implementation(On Demand Class, 03 Hours)
- Dell Data Protection Advisor Implementation - Lab(On Demand Lab, 02 Hours)
- Dell Data Protection Advisor Administration for the Sys Admin(On Demand Class, 05 Hours)
- Dell Data Protection Advisor Administration for the Sys Admin - Lab(On Demand Lab, 02 Hours)
- Dell Data Protection Advisor Administration - Custom Reports - Lab(On Demand Lab, 04 Hours)
- Dell Data Protection Advisor Administration - Custom Reports(On Demand Class, 02 Hours 30 Minutes)

Data Protection Central

[Data Protection Central \(DPC\) Administration](#)

This course explains and demonstrates the purpose and use of Data Protection Central (DPC). Students learn how DPC Single Sign-On (SSO) simplifies access to Avamar, NetWorker, Data Domain, Data Protection Advisor, and Search through a single interface; how use DPC to schedule, run, search, and restore backups; and how to use and customize the DPC dashboards to monitor and report on backup operations and performance. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	03 Hours 30 Minutes	ES131DPS00608
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[Data Protection Central \(DPC\) Administration](#)

This lab demonstrates the purpose and use of Data Protection Central (DPC). Students learn how DPC Single Sign-On (SSO) simplifies access to Avamar, NetWorker, Data Domain, Data Protection Advisor, and Search through a single interface; how use DPC to schedule, run, search, and restore backups; and how to use and customize the DPC dashboards to monitor and report on backup operations and performance.

On Demand Lab	02 Hours	ES101DPS01477
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[Data Protection Central \(DPC\) Implementation](#)

This course explains and demonstrates the deployment of Data Protection Central (DPC). Students learn how to deploy the DPC application OVA; how to upgrade DPC to the latest release; and how to configure and manage DPC Single Sign-On (SSO), passwords, and internal and external user authentication. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	02 Hours 30 Minutes	ES132DPS00609
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[Data Protection Central \(DPC\) Implementation](#)

This lab demonstrates the deployment of Data Protection Central (DPC). Students learn how to deploy the DPC application OVA; how to upgrade DPC to the latest release; and how to configure and manage DPC Single Sign-On (SSO), passwords, and internal and external user authentication.

On Demand Lab	02 Hours	ES102DPS01479
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Data Protection Search (DPS)

[Search Administration](#)

This course explains and demonstrates the purpose and use of (Data Protection) Search. Students learn how to perform different types of searches and filter results; how to index backups; how to monitor and troubleshoot search operations and performance; and how to configure Search replication for Disaster Recovery. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	02 Hours	ES131DPS00450
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[Search Administration](#)

This lab demonstrates the purpose and use of (Data Protection) Search. Students learn how to perform different types of searches and filter results; how to index backups; how to monitor and troubleshoot search operations and performance; and how to configure Search replication for Disaster Recovery.

On Demand Lab	02 Hours	ES102DPS01480
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[Search Implementation](#)

This course explains and demonstrates the deployment of (Data Protection) Search. Students learn how to deploy the Search application OVA; how to upgrade Search to the latest release; and how to configure Search for operation. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	45 Minutes	ES132DPS00326
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[Search Implementation](#)

This lab demonstrates the deployment of (Data Protection) Search. Students learn how to deploy the Search application OVA; how to upgrade Search to the latest release; and how to configure Search for operation.

On Demand Lab	02 Hours	ES102DPS01481
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Data Protection TA

[Dell Avamar Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to Dell Avamar, when designing solutions for customer environments.

On Demand Class	03 Hours	ESDPSD03580
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[Dell Cloud Data Protection Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to Dell Cloud Data Protection products, when designing solutions for customer environment

On Demand Class	04 Hours	ESDPSD03583
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[Dell Data Protection Concepts](#)

This course provides an understanding of the Dell Data Protection portfolio. The purpose of this course is to familiarize learners with the different Dell Data Protection products aligned with the Dell Data Protection strategy.

On Demand Class	45 Minutes	ESDPSD03687
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[Dell Data Protection Solution Design Concepts](#)

This course provides an understanding for designing solutions using Dell Data Protection products. The course describes how to assess a target environment as well as provides discussion on best practices and considerations regarding sizing, capacity, and tuning for Dell Data Protection products.

On Demand Class	01 Hours	ESDPSD03688
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[Dell EMC PowerProtect DD Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to PowerProtect DD systems when designing solutions for customer environments.

On Demand Class	03 Hours	ESDPSD03578
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[Dell EMC RecoverPoint for Virtual Machines Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to Dell EMC RecoverPoint for Virtual Machines, when designing solutions for customer environments.

On Demand Class	01 Hours	ESDPSD03582
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[Dell EMC RecoverPoint Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to Dell EMC RecoverPoint, when designing solutions for customer environments.

On Demand Class	01 Hours	ESDPSD03581
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[Dell NetWorker Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to Dell NetWorker, when designing solutions for customer environments.

On Demand Class	03 Hours	ESDPSD03579
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[Dell PowerProtect Data Manager Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to Dell PowerProtect Data Manager when designing solutions for customer environment.

On Demand Class	01 Hours	ESDPSD03584
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[Dell PowerProtect DP Series Appliances Solutions Design](#)

This course describes the best practices, considerations, and limitations pertinent to PowerProtect DP Series appliances when designing solutions for customer environments.

On Demand Class	03 Hours	ESDPSD03577
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[Tech Exchange - Modern Data Protection Solutions](#)

This session discusses how to implement a modern data protection approach to safeguard valuable data. It explores how solutions are impacted by Kubernetes, Ansible, REST API, the shift to Cloud and the rise of Ransomware. Includes a PowerProtect Data Manager lab demo that showcases how to optimize backup and recovery.

On Demand Class	01 Hours	ESMDXD03861
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[Integrated Data Protection Appliance \(IDPA\)](#)

[Dell PowerProtect DP Series Appliance Administration](#)

The PowerProtect DP Series Appliance Administration course provides the knowledge and skills for configuring, managing, and maintaining the DP series appliances. Respective backup and restore configurations are created for different production environments. They include VMware virtual machines, application servers, and NAS. The DP series appliance components are explained in detail. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	12 Hours	ES151DPS00619
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[Dell PowerProtect DP Series Appliance Concepts](#)

This course explains the purpose and use of PowerProtect DP series appliances. Students learn key terms and concepts, use cases, and key features and functionalities. The models in the DP series family, the architecture, user interfaces, and references to the documentation are covered.

On Demand Class	01 Hours	MR-1WN-IDPAFUN
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[PowerProtect DP Series Appliance Administration](#)

This course explains and demonstrates how to administer and use all features of the PowerProtect DP Series Appliance. The student will learn about each of the models in the PowerProtect DP Series Appliance model family and how to administer and use the PowerProtect DP Series Appliance ACM, PowerProtect DP Series Appliance System Manager, the Backup Server (Avamar), Protection Storage (Data Domain), Reports and Analytics (Data Protection Advisor), and Search. This course includes labs to reinforce these skills through exercises

Classroom	40 Hours	ES111DPS00617
Virtual Class		ES111DPS00617

[PowerProtect DP Series Appliance Administration](#)

This course explains and demonstrates how to administer and use all features of the PowerProtect DP Series Appliance. The student will learn about each of the models in the PowerProtect DP Series Appliance model family and how to administer and use the PowerProtect DP Series Appliance ACM, PowerProtect DP Series Appliance System Manager, the Backup Server (Avamar), Protection Storage (Data Domain), Reports and Analytics (Data Protection Advisor), and Search. This course includes labs to reinforce these skills through exercises

Virtual Class	40 Hours	ES121DPS00618
Classroom	40 Hours	ES121DPS00618

[PowerProtect DP Series Appliance Administration](#)

In this lab students will familiarize themselves with the Dell EMC PowerProtect DP Series Appliance ACM, and System Manager UIs and their capabilities. The lab covers backups and restores for different clients including Windows, Linux, VMware, and SQL Server. NDMP accelerators, protection storage configuration, and cloud tier are also covered. The lab navigates through search and reporting capabilities, and health monitoring and troubleshooting.

On Demand Lab	20 Hours	ES141DPS00621
Virtual Class		ES141DPS00621

[NetWorker](#)

[Dell NetWorker Administration](#)

This lab demonstrates configuration and use of NetWorker. Students learn how to configure NetWorker for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor NetWorker operation. Access to this On-Demand Lab will be granted for three (3) days to complete this 8-hours lab.

On Demand Lab	08 Hours	ES102DPS01705
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[Dell NetWorker Administration](#)

This course explains and demonstrates configuration and use of NetWorker. Students learn how to configure NetWorker for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor NetWorker operation. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	09 Hours 30 Minutes	ES102DPS01486
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[Dell NetWorker Administration - Cloud Enablement](#)

This course focuses on the integration of NetWorker with the supported cloud environments. Operational best practices are included with a focus on configuring and performing backup and recovery in a cloud environment. An on-demand lab course, Dell NetWorker Administration -- Cloud Enablement Lab, provides a lab environment for this course.

On Demand Class	02 Hours 30 Minutes	MR-1WP-NWCLD
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[Dell NetWorker Administration - Cloud Enablement](#)

This lab focuses on NetWorker and the ability to enable backups to the cloud. Operational best practices are included with a focus on configuring and performing backup and recovery in a cloud environment. The course provides demonstrations to reinforce the training.

On Demand Lab	08 Hours	ES101DPS01728
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[Dell NetWorker Concepts](#)

This course explains the purpose and use of Dell NetWorker. Students learn key terms and concepts and the key features and functionalities of NetWorker.

On Demand Class	01 Hours	MR-1WP-NWFUN
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[Dell NetWorker Implementation](#)

This lab demonstrates deployment, configuration, and use of NetWorker. Students learn how to deploy the NetWorker components and how to configure and prepare NetWorker for administration.

On Demand Lab	08 Hours	ES101DPS01761
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[Dell NetWorker Implementation](#)

This course demonstrates the deployment of NetWorker. Students learn how to deploy NetWorker and how to configure and prepare NetWorker for administration. An on-demand lab course, NetWorker Implementation Lab, provides lab environment for this course.

On Demand Class	04 Hours	ES101DPS01760
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[Dell NetWorker Implementation and Administration](#)

This course provides participants with the knowledge and basic skills necessary to install, configure, maintain and monitor NetWorker. The course contains lectures, hands-on labs and video demonstrations to provide experience with specific concepts.

Classroom	40 Hours	MR-1CP-NWIM
Virtual Class		MR-1CP-NWIM

[Dell NetWorker Implementation and Administration](#)

This course provides participants with the knowledge and basic skills necessary to install, configure, maintain and monitor NetWorker. The course contains lectures, hands-on labs and video demonstrations to provide experience with specific concepts.

Virtual Class	40 Hours	MR-1LP-NWIM
Classroom	40 Hours	MR-1LP-NWIM

[Dell NetWorker Integration with Microsoft Exchange](#)

This lab demonstrates the integration of NetWorker with Microsoft Exchange. Students learn operational best practices with a focus on configuring and performing backup and recovery of Microsoft Exchange.

On Demand Lab	08 Hours	ES103DPS01707
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[Dell NetWorker Integration with Microsoft SharePoint](#)

This lab demonstrates the integration of NetWorker with Microsoft SharePoint. Students learn operational best practices with a focus on configuring and performing backup and recovery of SharePoint.

On Demand Lab	08 Hours	ES103DPS01710
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[Dell NetWorker Integration with Microsoft SQL Server](#)

This lab demonstrates the integration of NetWorker with MS-SQL. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases.

On Demand Lab	08 Hours	ES103DPS01708
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[NetWorker Integration](#)

This course focuses on optimizing NetWorker performance and integrating NetWorker with Dell EMC backup products, Microsoft applications, Oracle, SAP, MEDITECH and virtual environments. Operational best practices are included with a focus on configuring and performing backup and recovery of file systems, applications and databases. The course provides hands-on labs to reinforce the training.

Classroom	40 Hours	MR-1CN-NWIW
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[NetWorker Integration](#)

This course explains and demonstrates the integration of NetWorker with different applications, databases, virtual machine hosts, and cloud environments. Students learn operational best practices with a focus on configuring and performing backup and recovery of file systems, applications and databases. This course includes labs to reinforce these skills through exercises.

Virtual Class	40 Hours	MR-1LN-NWIW
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[NetWorker Integration with Hyper-V](#)

This course explains and demonstrates the integration of NetWorker with Hyper-V. Students learn operational best practices with a focus on configuring and performing backup and recovery of virtual machines. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	02 Hours	ES103DPS01488
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[NetWorker Integration with Hyper-V](#)

This lab demonstrates the integration of NetWorker with Hyper-V. Students learn operational best practices with a focus on configuring and performing backup and recovery of virtual machines.

On Demand Lab	08 Hours	ES103DPS01706
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[NetWorker Integration with MEDITECH](#)

This course explains and demonstrates the integration of NetWorker with MEDITECH for backup and recovery. Students learn operational best practices with a focus on configuring and performing backup and recovery using MEDITECH.

On Demand Class	02 Hours	ES103DPS01543
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[NetWorker Integration with Microsoft Exchange](#)

This course explains and demonstrates the integration of NetWorker with MS-Exchange. Students learn operational best practices with a focus on configuring and performing backup and recovery of MS-Exchange. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	02 Hours 30 Minutes	ES103DPS01489
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[NetWorker Integration with Microsoft SQL Server](#)

This course explains and demonstrates the integration of NetWorker with MS-SQL. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	03 Hours	ES103DPS01491
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[NetWorker Integration with Oracle](#)

This lab demonstrates the integration of NetWorker with Oracle. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases.

On Demand Lab	08 Hours	ES103DPS01709
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[NetWorker Integration with Oracle](#)

This course explains and demonstrates the integration of NetWorker with Oracle. Students learn operational best practices with a focus on configuring and performing backup and recovery of logs and databases. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	03 Hours 30 Minutes	ES103DPS01492
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[NetWorker Integration with ProtectPoint](#)

This course explains and demonstrates the integration of NetWorker with ProtectPoint. Students learn operational best practices with a focus on configuring and performing backup and recovery using ProtectPoint. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01539
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[NetWorker Integration with SAP](#)

This course explains and demonstrates the integration of NetWorker with SAP. Students learn operational best practices with a focus on configuring and performing backup and recovery using SAP. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01541
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[NetWorker Integration with SAP HANA](#)

This lab demonstrates the integration of NetWorker with SAP HANA. Students learn operational best practices with a focus on configuring and performing backup and recovery of SAP HANA.

On Demand Lab	08 Hours	ES103DPS01542
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[NetWorker Integration with SharePoint](#)

This course explains and demonstrates the integration of NetWorker with SharePoint. Students learn operational best practices with a focus on configuring and performing backup and recovery of SharePoint. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01490
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[NetWorker Integration with VMware](#)

This lab demonstrates the integration of NetWorker with VMware. Students learn operational best practices with a focus on configuring and performing backup and recovery of virtual machines.

On Demand Lab	08 Hours	ES103DPS01711
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[NetWorker Integration with VMware](#)

This course explains and demonstrates the integration of NetWorker with VMware. Students learn operational best practices with a focus on configuring and performing backup and recovery of virtual machines. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	01 Hours 30 Minutes	ES103DPS01493
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[DCS-IE NetWorker Implementation Engineer \[Classroom\] - Package](#)

This package contains all the training necessary to help you prepare for the NetWorker Specialist certification. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

This package includes the following courses:

- Dell NetWorker Implementation and Administration(Classroom, 40 Hours|Virtual Class)
- Dell NetWorker Implementation and Administration(Virtual Class, 40 Hours|Classroom, 40 Hours)
- Dell NetWorker Administration - Cloud Enablement(On Demand Class, 02 Hours 30 Minutes)

[DCS-IE NetWorker Implementation Engineer \[On-Demand\] - Package](#)

This package contains all the training necessary to help you prepare for the NetWorker Specialist certification. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

This package includes the following courses:

- Dell NetWorker Concepts(On Demand Class, 01 Hours)
- Dell NetWorker Administration - Cloud Enablement(On Demand Class, 02 Hours 30 Minutes)
- Dell NetWorker Implementation(On Demand Lab, 08 Hours)
- Dell NetWorker Administration(On Demand Lab, 08 Hours)
- Dell NetWorker Implementation(On Demand Class, 04 Hours)
- Dell NetWorker Administration(On Demand Class, 09 Hours 30 Minutes)

[PowerProtect Data Manager](#)

[Dell PowerProtect Data Manager Concepts](#)

This course introduces the Dell PowerProtect Data Manager and its user interface. This course explains the use cases of Dell PowerProtect Data manager.

On Demand Class	01 Hours	ES131DPS00978
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[Dell PowerProtect Data Manager Features](#)

This course summarizes the Dell PowerProtect Data Manager features and overviews the Dell PowerProtect Data Manager user interface and dashboard. This course also explains the PowerProtect Data Manager options and functionalities.

On Demand Class	01 Hours 30 Minutes	ES131DPS00994
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[Dell PowerProtect Data Manager Implementation](#)

This course explains the steps required to deploy PowerProtect Data Manager on a vCenter using OVA file. Post installation tasks and initial configuration are also covered in this course.

On Demand Class	01 Hours	ES131DPS00979
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[Dell PowerProtect Data Manager Implementation and Administration](#)

This course explains and demonstrates the deployment, configuration, and integration of Dell PowerProtect Data Manager with Microsoft Exchange, Microsoft SQL, Kubernetes, Oracle, SAP HANA, and VMware virtual machines. It describes various databases backup and restore operations with Dell PowerProtect Data Manager. This course includes labs to reinforce these skills through exercises.

Classroom	40 Hours	ESDPSS02373
Virtual Class	40 Hours	ESDPSS02373

[Dell PowerProtect Data Manager Implementation Lab](#)

This lab demonstrates the PowerProtect Data Manager deployment procedures. Students learn operational best practices with a focus on deploying the PowerProtect Data Manager .OVA file and performing the initial configurations. Access to this On-Demand Lab will be granted for 24 hours to complete this 30 minutes lab.

On Demand Lab	30 Minutes	ES131DPS00987
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[Dell PowerProtect Data Manager Microsoft SQL Integration](#)

This course explains the PowerProtect Data Manager with Microsoft SQL integration features. The course describes the configuration for the Microsoft SQL database backup. It highlights the steps to back up and restore Microsoft SQL databases. The Microsoft Application Agent for SQL Server Management Studio Plug-in is used.

On Demand Class	03 Hours	ES131DPS00986
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[Dell PowerProtect Data Manager Microsoft SQL Integration Lab](#)

This lab demonstrates the integration of Microsoft SQL Server with PowerProtect Data Manager. Students learn operational practices with a focus on configuring and performing backup and recovery of the Microsoft SQL databases with PowerProtect Data Manager workflows. Access to this On-Demand Lab will be granted for 24 hours to complete this 90 minutes lab.

On Demand Lab	01 Hours 30 Minutes	ES131DPS00998
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[Dell PowerProtect Data Manager Oracle Integration](#)

This course explains the Dell PowerProtect Data Manager with Oracle integration features. The course describes the configuration of Oracle database backup with PowerProtect Data Manager. The course highlights the steps to back up and restore Oracle databases using the PowerProtect Data Manager and Oracle Recovery Manager (RMAN)

On Demand Class	01 Hours 30 Minutes	ES131DPS00985
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[Dell PowerProtect Data Manager Oracle Integration Lab](#)

This lab demonstrates the integration of Oracle databases with Dell PowerProtect Data Manager. Students learn operational practices with a focus on configuring and performing backups and recovery of the Oracle databases with PowerProtect Data Manager. Access to this On-Demand Lab will be granted for 24 hours to complete this 60 minute lab.

On Demand Lab	01 Hours	ES141DPS00997
On Demand Class	01 Hours	ES141DPS00997

[Dell PowerProtect Data Manager SAP HANA Integration](#)

This course explains the Dell PowerProtect Data Manager with SAP HANA integration features. The course describes the configuration of SAP HANA database backup with PowerProtect Data Manager. The course highlights the steps to back up and restore SAP HANA databases using the PowerProtect Data Manager and SAP HANA Studio .

On Demand Class	01 Hours 30 Minutes	ES101DPS01685
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[Dell PowerProtect Data Manager SAP HANA Integration Lab](#)

This lab demonstrates the integration of SAP HANA database with Dell PowerProtect Data Manager. Students learn operational practices with a focus on configuring and performing backups and recovery of the SAP HANA databases with PowerProtect Data Manager. Access to this On-Demand Lab will be granted for 24 hours to complete this 45-minute lab.

On Demand Lab	45 Minutes	ES101DPS01686
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[Dell PowerProtect Data Manager Upgrade](#)

This course explains the Dell PowerProtect Data Manager upgrade operations. The course describes PowerProtect Data Manager upgrade requirements and highlights the steps required to update older versions of PowerProtect Data Manager to latest versions.

On Demand Class	30 Minutes	ES131DPS00982
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[Dell PowerProtect Data Manager VM Integration](#)

This course covers the integration of virtual machines with PowerProtect Data Manager. This course explains the steps required to add an instance of vCenter, add VM Direct engine and Transparent Snapshot Data Mover, create protection policies for the virtual machines and to restore virtual machines with the PowerProtect Data Manager

On Demand Class	02 Hours	ES131DPS00984
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[Dell PowerProtect Data Manager VM Integration Lab](#)

This lab demonstrates the integration of VMware virtual machine with PowerProtect Data Manager. Students learn operational practices with a focus on configuring and performing backups and recovery of the VMware virtual machines with PowerProtect Data Manager. Access to this On-Demand Lab will be granted for 24 hours to complete this 60 minutes lab.

On Demand Class	01 Hours	ES142DPS00996
On Demand Lab	01 Hours	ES142DPS00996

[Dell vProtect Concepts](#)

This course provides students with basic knowledge of the Dell vProtect product. This course covers vProtect features, use cases, benefits, architecture, and components.

On Demand Class	01 Hours	ES101DPS01909
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[Dell vProtect Implementation and Administration](#)

This course provides the knowledge and skills needed for deploying and managing the vProtect product. This course covers the environment planning and steps required for vProtect installation and post installation including initial configuration. This course also covers the integration of vProtect with PowerProtect DD and supported virtual machine and cloud platforms. This course covers the steps required to perform backup, recovery, snapshot management, policies and schedules to backup virtual machines, and vProtect upgrades. This course also covers the steps to enable debug mode in vProtect nodes and servers, and the steps to collect vProtect activity logs using web UI or directly from the operating system.

On Demand Class	05 Hours 30 Minutes	ES402DPS01913
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[PowerProtect Data Manager Implementation and Administration](#)

This course explains and demonstrates the deployment, configuration, and integration of Dell EMC PowerProtect Data Manager with Microsoft Exchange, Microsoft SQL, Kubernetes, Oracle, SAP HANA, and VMware virtual machines. It describes various databases backup and restore operations with PowerProtect Data Manager. This course includes labs to reinforce these skills through exercises.

Classroom	32 Hours	ESDPSS02372
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[PowerProtect Data Manager Kubernetes Integration](#)

This course explains the Dell EMC PowerProtect Data Manager with Kubernetes integration features. It describes the configuration of Kubernetes namespaces backup with PowerProtect Data Manager. The steps to back up and restore Kubernetes namespaces using the PowerProtect Data Manager are covered.

On Demand Class	01 Hours 30 Minutes	ESDPSD02845
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[PowerProtect Data Manager Microsoft Exchange Integration](#)

This course explains the Dell EMC PowerProtect Data Manager with Microsoft Exchange mailbox database integration features. It describes the configuration of Microsoft Exchange mailbox database backup with PowerProtect Data Manager. The steps to back up and restore Microsoft Exchange mailbox database using the PowerProtect Data Manager and the Microsoft Exchange Management Shell are covered.

On Demand Class	02 Hours	ESDPSD02844
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[PowerProtect Data Manager Troubleshooting](#)

This course contains guidance and recommendations to ensure a successful PowerProtect implementation. In this course, specific recommendations for troubleshooting specific conditions related to PowerProtect Data Manager backup configurations and VM backups are discussed.

On Demand Class	45 Minutes	ES531DPS00983
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[RecoverPoint](#)

[Dell RecoverPoint Concepts](#)

This course introduces the Dell RecoverPoint solution. It presents an overview of the architecture, features, and functionality of RecoverPoint Systems. The learner will be exposed to the unique use cases and the different management options available.

On Demand Class	01 Hours	MR-1WP-RPFD
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[RecoverPoint Administration for Physical Storage Arrays](#)

This course is designed to prepare personnel to manage RecoverPoint. This course includes coverage of Classic RecoverPoint and RecoverPoint with VNX (formerly known as RecoverPoint/SE). This course covers product concepts and theory as well as available Operations within RecoverPoint including configuring protection, failover and recovery as well as how to manage and maintain a RecoverPoint environment using the tools available. There are hands-on labs covering: Configuration of Consistency Groups and replication and maintenance tasks such as failover and recovery. The course also addresses troubleshooting of general deployment and implementation issues. This course does not cover RecoverPoint for Virtual Machines. Administration and management of RecoverPoint for Virtual Machines is covered in RecoverPoint for Virtual Machines Administration (On Demand Class, ESDPSD02371) and RecoverPoint for VMs Management - On Demand Lab (On Demand Lab, ES143DPS00237)

Classroom	24 Hours	MR-9CN-NSRPOM
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[RecoverPoint Administration for Physical Storage Arrays](#)

This course is designed to prepare personnel to manage RecoverPoint. This course includes coverage of Classic RecoverPoint and RecoverPoint with VNX (formerly known as RecoverPoint/SE). This course covers product concepts and theory as well as available Operations within RecoverPoint including configuring protection, failover and recovery as well as how to manage and maintain a RecoverPoint environment using the tools available. There are hands-on labs covering: Configuration of Consistency Groups and replication and maintenance tasks such as failover and recovery. The course also addresses troubleshooting of general deployment and implementation issues. This course does not cover RecoverPoint for Virtual Machines. Administration and management of RecoverPoint for Virtual Machines is covered in RecoverPoint for Virtual Machines Administration (On Demand Class, ESDPSD02371) and RecoverPoint for VMs Management - On Demand Lab (On Demand Lab, ES143DPS00237)

Virtual Class	24 Hours	MR-9LN-NSRPOM2
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[RecoverPoint for Virtual Machines Administration](#)

This On-Demand lab explores lab scenarios based on the On-Demand course, RecoverPoint for Virtual Machines Administration. This lab guides the student thru the process of protecting Virtual Machines using consistency groups and performing VMs recovery operations. This lab also uses the RecoverPoint for VMs Plug-in to monitor a RecoverPoint for Virtual Machines system. Access to this On-Demand Lab will be granted for 24 hours to complete this three hours lab.

On Demand Lab	03 Hours	ES143DPS00237
Virtual Class		ES143DPS00237

[RecoverPoint for Virtual Machines Administration](#)

This On-Demand course explains and demonstrates the administration of RecoverPoint for Virtual Machines.

On Demand Class	02 Hours 30 Minutes	ESDPSD02371
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[RecoverPoint for Virtual Machines Concepts](#)

This course provides an overview of RecoverPoint for Virtual Machines. It addresses the fundamental concepts, operations, use cases, product architecture and definition of components.

On Demand Class	01 Hours	ES131DPS00314
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[RecoverPoint for Virtual Machines Implementation](#)

This course is intended for individuals who will perform RecoverPoint for Virtual Machines deployment activities including planning, installation, and configuration.

On Demand Class	01 Hours	ES133DPS00234
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[RecoverPoint for Virtual Machines Implementation](#)

This On-Demand lab explores lab scenarios based on the On-Demand course, RecoverPoint for Virtual Machines Implementation. The session does not cover concepts, but rather provides a lab environment where participants can validate skills and concepts covered in the On-Demand course. During this online lab session, participants will practice how to deploy, configure, and register RecoverPoint for Virtual Machines. Access to this On-Demand Lab will be granted for 24 hours to complete this 3-hour lab.

On Demand Lab	03 Hours	ES143DPS00236
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[RecoverPoint for Virtual Machines Implementation and Administration](#)

This course covers how to implement, manage and monitor a RecoverPoint for Virtual Machines solution. Deployment activities including planning, installation, and configuration are covered in this course. Management activities such as testing images for remote access, creating bookmarks, and failover and production recovery operations are also covered. Finally, this course covers the methods for determining the health of a RecoverPoint for VMs system, methods to troubleshoot vRPA connectivity issues and diagnose RecoverPoint for VMs system performance issues.

Classroom	16 Hours	ESDPSS03215
Virtual Class	16 Hours	ESDPSS03215

[RecoverPoint for Virtual Machines Troubleshooting](#)

This course focuses on issue discovery and resolution for a RecoverPoint for VMs environment. The course includes definition of potential faults, common configuration errors, and connectivity requirements. Instruction on troubleshooting techniques, tools and procedures, and performance considerations are also covered.

On Demand Class	02 Hours	ES503DPS00632
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[RecoverPoint Management - Video ILT](#)

This course is designed to prepare personnel to manage RecoverPoint. This course includes coverage of Classic RecoverPoint and RecoverPoint with VNX (formerly known as RecoverPoint/SE). This course covers product concepts and theory as well as available Operations within RecoverPoint including configuring protection, failover and recovery as well as how to manage and maintain a RecoverPoint environment using the tools available. There are hands-on labs covering: Configuration of Consistency Groups and replication and maintenance tasks such as failover and recovery. The course also addresses troubleshooting of general deployment and implementation issues. This course does not cover RecoverPoint for Virtual Machines. Administration and management of RecoverPoint for Virtual Machines is covered in RecoverPoint for Virtual Machines Administration (On Demand Class, ESDPSD02371) and RecoverPoint for VMs Management - On Demand Lab (On Demand Lab, ES143DPS00237)

On Demand Class	24 Hours	MR-9TP-NSRPOM-1703
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[RecoverPoint with VNX Cluster Installation](#)

This course will cover installation of RecoverPoint with VNX clusters. The use of Solve Desktop and other required documentation will be discussed. Use cases for the various types of RecoverPoint Appliances, physical and virtual, along with the capabilities of each are investigated. This course will explain the procedure for installing and configuring a RecoverPoint with VNX Cluster using the Deployment Manager tool. It will cover the options and methods of connecting clusters together in the supported topologies.

On Demand Class	02 Hours	MR-1WN-RPWVNX
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[RecoverPoint with VNX Implementation - Video ILT](#)

This course is designed to prepare personnel to perform RecoverPoint with VNX cluster implementations (formerly known as RecoverPoint/SE). This course covers product concepts and theory as well as installation options. The course goes into depth on the RecoverPoint with VNX (formerly SE) implementation. The course then goes on to cover available Operations within RecoverPoint including configuring protection, failover and recovery as well as how to manage and maintain a RecoverPoint environment using the tools available.

On Demand Class	24 Hours	MR-1TP-RPWVNXIMP-1510
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[RecoverPoint for Virtual Machines On-Demand Training - Package](#)

This package of courses will prepare students to install, configure and manage a RecoverPoint for Virtual Machines environment. This package includes both on-demand courses as well as on-demand labs to allow students to develop hands-on experience with RecoverPoint for Virtual Machines.

This package includes the following courses:

- RecoverPoint for Virtual Machines Implementation(On Demand Class, 01 Hours)
- RecoverPoint for Virtual Machines Implementation(On Demand Lab, 03 Hours)
- RecoverPoint for Virtual Machines Concepts(On Demand Class, 01 Hours)
- RecoverPoint for Virtual Machines Administration(On Demand Lab, 03 Hours|Virtual Class)
- RecoverPoint for Virtual Machines Administration(On Demand Class, 02 Hours 30 Minutes)

[RecoverPoint Systems Administrator - Package](#)

This package is aligned to and supports the E20-575 Specialist - System Administrator, RecoverPoint certification. This package focus on developing the knowledge and skills to demonstrate management, configuration and administration of RecoverPoint systems. This package includes the On Demand courses RecoverPoint Fundamentals and RecoverPoint Management - Video ILT.

This package includes the following courses:

- Dell RecoverPoint Concepts(On Demand Class, 01 Hours)
- RecoverPoint Management - Video ILT(On Demand Class, 24 Hours)

[RecoverPoint Systems Administrator ILT Training - Package](#)

This package is aligned to and supports the E20-575 Specialist - System Administrator, RecoverPoint certification. This package focus on developing the knowledge and skills to demonstrate management, configuration and administration of RecoverPoint systems. This package includes the RecoverPoint Fundamentals on demand course and the student can choose between live in-person or live online instruction for RecoverPoint Management course.

This package includes the following courses:

- RecoverPoint Administration for Physical Storage Arrays(Classroom, 24 Hours)
- RecoverPoint Administration for Physical Storage Arrays(Virtual Class, 24 Hours)
- Dell RecoverPoint Concepts(On Demand Class, 01 Hours)
- Dell Technologies Proven Professional VUE Exam Voucher(Exam Voucher|On Demand Class)

[SourceOne](#)

[SourceOne Archiving Family Concepts](#)

This course provides an overview of the products in the EMC SourceOne family. Students will learn about the benefits, concepts and terminology, and components of EMC SourceOne.

On Demand Class	01 Hours 30 Minutes	MR-1WP-SOFUN
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[SourceOne Discovery Manager Management](#)

This course provides an overview of EMC SourceOne Discovery Manager, including using Discovery Manager to produce a responsive set of information applicable to a basic discovery request. Prior knowledge of EMC SourceOne Email Management administration is a prerequisite.

On Demand Class	01 Hours	MR-1WN-SODMM
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[SourceOne Email Management Administration for Exchange - Video ILT](#)

This course covers EMC SourceOne Email Management configuration, administration, monitoring and reporting for Microsoft Exchange environments. It also provides an overview of troubleshooting and maintenance of the Email Management product. Demonstrations of course labs are provided for configuring and administering EMC SourceOne Email Management, Search, Offline Access and reporting on a Windows and Microsoft Exchange environment.

On Demand Class	40 Hours	MR-1TN-SOEMEX-1509
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[SourceOne Email Supervisor Management](#)

The SourceOne Email Supervisor Management course provides an overview of EMC SourceOne Email Supervisor, including using Email Supervisor to configure a basic business policy and review group for flagging and sampling messages, and to review selected messages.

On Demand Class	02 Hours	MR-1WN-SOESPV
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[SourceOne Video ValuePak - Package](#)

This package provides students with training to prepare them for understanding and managing SourceOne environments.

This package includes the following courses:

- SourceOne Archiving Family Concepts(On Demand Class, 01 Hours 30 Minutes)
- SourceOne Email Management Administration for Exchange - Video ILT(On Demand Class, 40 Hours)

[Advanced Methods in Data Science and Big Data Analytics](#)

Digital Transformation

Big Data

This course builds on skills developed in the Data Science and Big Data Analytics course. The main focus areas cover Hadoop (including Pig, Hive, and HBase), Natural Language Processing, Social Network Analysis, Simulation, Random Forests, Multinomial Logistic Regression, and Data Visualization. Taking an open or technology-neutral approach, this course utilizes several open-source tools to address big data challenges.

Classroom	40 Hours	MR-1CP-ETAAMUSD
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[Advanced Methods in Data Science and Big Data Analytics - Online ILT](#)

This course builds on skills developed in the Data Science and Big Data Analytics course. The main focus areas cover Hadoop (including Pig, Hive, and HBase), Natural Language Processing, Social Network Analysis, Simulation, Random Forests, Multinomial Logistic Regression, and Data Visualization. Taking an 'Open' or technology-neutral approach, this course utilizes several open-source tools to address big data challenges.

Virtual Class	40 Hours	MR-1LP-ETAAMUSD
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[Advanced Methods in Data Science and Big Data Analytics - VILT](#)

This course builds on skills developed in the Data Science and Big Data Analytics course. The main focus areas cover Hadoop (including Pig, Hive, and HBase), Natural Language Processing, Social Network Analysis, Simulation, Random Forests, Multinomial Logistic Regression, and Data Visualization. Taking an "Open" or technology-neutral approach, this course utilizes several open-source tools to address big data challenges.

On Demand Class	40 Hours	MR-1TP-ETAAMUSD-966
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[Advanced Methods in Data Science and Big Data Analytics On-Demand Lab](#)

This on-demand lab provides access to the lab environment provided in the Advanced Methods in Data Science and Big Data Analytics courses. The guided lab exercises provides hands-on experience with Hadoop, Hive, Pig, HBase, and Spark. For the text analysis exercises, the Python Natural Language Tool Kit (NLTK) is utilized. Python and Gephi are utilized for the Social Network Analysis exercises. The R programming language is used to perform the simulation and Random Forest analyses.

On Demand Lab	216 Hours	ES742OCMADSNA
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[AI and ML Software Frameworks - On-Demand Course](#)

This course provides a background on need and significance of AI and ML frameworks. It explains in detail about various existing frameworks, their features and limitations. The course details out building NN models in PyTorch, Tensorflow and Caffe2. Later part of course compares the pros and cons of various AI/ML frameworks. The need and significance of Automated ML frameworks and major Auto ML frameworks is highlighted. Finally, workflow and high-level programming of PyTorch, TensorFlow and Caffe2 frameworks is discussed. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

On Demand Class	02 Hours 45 Minutes	ESOCMD02260
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[AI and ML Software Frameworks - On-Demand Lab](#)

The lab provides hands on experience on TensorFlow and Pytorch framework.

On Demand Lab	30 Minutes	ESOCMD02267
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[An Introduction to Data Science and Big Data - Classroom](#)

This half day course is intending to give attendees an overview of the key concepts and terminology used when discussing Data Science and Big Data. No previous knowledge is assumed. The course content is manufacturer agnostic and aims to help prepare attendees to ask the correct questions when assessing products or devising projects. Topics covered: Characteristics of Big Data, What makes data Big, Business Drivers for Analytics, Why should we be doing it, Common Data Structures, Structured through to Unstructured Data, Science Vs Business Intelligence, What's the difference, Data Warehouses Vs Analytics Sandboxes, Why Pile it High doesn't work, Data Sources, IoT to Crowd Sourcing, Data Visualisation and Cleaning, Using Human Wetware! Data Scientist Traits, Who should you be hiring and where to look for them, Data Analytics Lifecycle, 6 steps to Big Data happiness, Common Classes of Data Science Tasks, Clustering, classification, text a

Classroom	04 Hours	MR-1CN-INTDATSCIBIGDAT
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[Artificial Intelligence and Machine Learning](#)

This course covers broad range of emerging AI techniques and supporting technologies such as: ML, neural networks, deep reinforcement learning, and AI Infrastructure. The course provides a detailed description about the technical and operational aspect of AI and ML and helps the learners to understand the concepts of AI, ML, neural network, reinforcement learning, NLP and artificial ecosystem. The course also provides a detailed description about the need of AI ready infrastructure, AI and ML frameworks, and also know about the implemented machine learning models, and use cases across the industry. The offering is an engaging mix of key technologies, hands-on labs, case examples, and business insights.

Classroom	24 Hours	ESOCMS02326
Virtual Class	24 Hours	ESOCMS02326

[Artificial Intelligence and Machine Learning - On Demand Course](#)

This course covers broad range of emerging AI techniques and supporting technologies such as: ML, neural networks, deep reinforcement learning, and AI Infrastructure. The course provides a detailed description about the technical and operational aspect of AI and ML and helps the learners to understand the concepts of AI, ML, neural network, reinforcement learning, NLP and artificial ecosystem. The course also provides a detailed description about the need of AI ready infrastructure, AI and ML frameworks, and also know about the implemented machine learning models, and use cases across the industry. The offering is an engaging mix of key technologies, hands-on labs, case examples, and business insights.

On Demand Class	16 Hours	ESOCMD02344
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[Building an AI Ecosystem - On-Demand Course](#)

This course describes the concept of building AI ecosystem. The course provides a detailed description of how AI is implemented in a business model and helps to understand the impact of AI in business. The course also provides an overview of ethics in AI, various ethical issues principles, different types of biases and their impacts and what culture should be developed to reduce bias and increase the trust of humans over machines.

On Demand Class	90 Hours	ESOCMD02262
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[Building an Enterprise-Wide Artificial Intelligence Infrastructure - On-Demand Course](#)

This course describes artificial intelligence and machine learning workflow and its significance. The offering helps to understand the need of planning and designing AI infrastructure. The course provides a detailed description about need of AI infrastructure and helps to understand various infrastructure components and their role in building AI across organization. The course also offers hands-on labs demonstrating hosting of ml models using Docker.

On Demand Class	06 Hours 30 Minutes	ESOCMD02259
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[Building an Enterprise-Wide Artificial Intelligence Infrastructure - On-Demand Lab](#)

The lab helps to understand the basic docker operations and provides information about how to perform operations on a tensorflow serving image.

On Demand Lab	30 Minutes	ESOCMD02266
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[Data Engineering Workshop - Virtual Classroom](#)

For over 10 years, there has been an intense focus by companies to extract business value from their data. Out of this activity, a role called the data scientist emerged. However, it quickly became obvious that a majority of a data scientist's time was spent on data preparation or moving analytical models into production environments. Thus, the data engineer has emerged as a highly desirable and indispensable member of an analytics project team. This instructor-led workshop covers the content and hands-on lab exercises provided in the following five courses: Data Warehousing with SQL and NoSQL, ETL Offload with Hadoop and Spark, Processing Streaming and IoT Data, Building Data Pipelines with Python, and Data Governance, Security and Privacy for Big Data. This training prepares the learner for a major portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options

Virtual Class	40 Hours	ES722OCMDEWRK
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[Data Governance, Security and Privacy for Big Data - On-Demand Course](#)

This course introduces data governance and data management approaches applicable to a wide range of use cases. Focusing on the various governance roles and models, this course prepares the learner to implement and maintain a successful data governance program. Additionally, the course covers several Apache tools, Atlas, Ranger, and Knox, that enable the management and control of an organization's datasets in Big Data environments such as Hadoop. The on-demand course includes recorded lab exercise demonstrations of these Apache tools. This course prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options.

On Demand Class	08 Hours	ES732OCMDGSPR
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[Data Governance, Security and Privacy for Big Data - On-Demand Lab](#)

This on-demand lab provides access to the lab environment provided in the Data Governance, Security, and Privacy for Big Data course which covers data governance and data management principles and approaches. The guided lab exercises provide hands-on experience with the following Apache tools: Atlas, Ranger, and Knox. These tools enable the management and control of an organization's datasets in Big Data environments such as Hadoop. This on-demand lab supplements the training that prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options.

On Demand Lab	08 Hours	ES742OCMDGSPR
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[Data Science and Big Data Analytics for Business Transformation](#)

Businesses are increasingly looking to take advantage of Big Data to be competitive. In addition to Data Scientists, organizations need data-savvy business leaders who can identify opportunities to solve business problems using advanced analytics and who have the expertise to lead an analytical team. This course gives business leaders the skills and knowledge to better manage such analytical efforts. It describes how to get started and what is required to effectively run projects which leverage Big Data analytics. Specifically, it addresses: deriving business value from Big Data, leading Data Science projects using a data analytics lifecycle, developing Data Science teams, and driving innovation using analytics.

Classroom	08 Hours	MR-1CN-NDSFBL
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[Data Science and Big Data Analytics for Business Transformation - Japanese](#)

Businesses are increasingly looking to take advantage of Big Data to be competitive. In addition to Data Scientists, organizations need data-savvy business leaders who can identify opportunities to solve business problems using advanced analytics and who have the expertise to lead an analytical team. This course gives business leaders the skills and knowledge to better manage such analytical efforts. It describes how to get started and what is required to effectively run projects which leverage Big Data analytics. Specifically, it addresses: deriving business value from Big Data, leading Data Science projects using a data analytics lifecycle, developing Data Science teams, and driving innovation using analytics.

Classroom	08 Hours	MR-1CN-NDSFBL-JP
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[Data Science and Big Data Analytics for Business Transformation - Video ILT](#)

Businesses are increasingly looking to take advantage of Big Data to be competitive. In addition to Data Scientists, organizations need data-savvy business leaders who can identify opportunities to solve business problems using advanced analytics and who have the expertise to lead an analytical team. This course gives business leaders the skills and knowledge to better manage such analytical efforts. It describes how to get started and what is required to effectively run projects which leverage Big Data analytics. Specifically, it addresses: deriving business value from Big Data, leading Data Science projects using a data analytics lifecycle, developing Data Science teams, and driving innovation using analytics.

On Demand Class	08 Hours	MR-1TN-NDSFBL
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[Data Science and Big Data Analytics v2 - Classroom](#)

This course provides practical foundation level training that enables immediate and effective participation in big data and other analytics projects. It includes an introduction to big data and the Data Analytics Lifecycle to address business challenges that leverage big data. The course provides grounding in basic and advanced analytic methods and an introduction to big data analytics technology and tools, including MapReduce and Hadoop. Labs offer opportunities for students to understand how these methods and tools may be applied to real world business challenges by a practicing data scientist. The course takes an Open, or technology-neutral approach, and includes a final lab which addresses a big data analytics challenge by applying the concepts taught in the course in the context of the Data Analytics Lifecycle. The course prepares the student for the Dell EMC Proven Professional Data Scientist Associate certification exam.

Classroom	40 Hours	ES712OCMDSBDA
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[Data Science and Big Data Analytics v2 - On-Demand Course](#)

This course provides practical foundation level training that enables immediate and effective participation in Big Data and other analytics projects. It includes an introduction to Big Data and the Data Analytics Lifecycle to address business challenge. The course provides grounding in basic and advanced analytic methods and an introduction to Big Data analytics technology and tools, including MapReduce and Hadoop. Recorded lab exercises offer opportunities for students to understand how these methods and tools may be applied to real world business challenges by a practicing data scientist. The course takes an Open, or technology-neutral approach, and includes a final lab which addresses a Big Data analytics challenge by applying the concepts taught in the course in the context of the Data Analytics Lifecycle. The course prepares the student for the Dell EMC Proven Professional Data Scientist Associate certification exam.

On Demand Class	40 Hours	ES732OCMDSBDA
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[Data Science and Big Data Analytics v2 - Virtual Classroom](#)

This course provides practical foundation level training that enables immediate and effective participation in big data and other analytics projects. It includes an introduction to big data and the Data Analytics Lifecycle to address business challenges that leverage big data. The course provides grounding in basic and advanced analytic methods and an introduction to big data analytics technology and tools, including MapReduce and Hadoop. Labs offer opportunities for students to understand how these methods and tools may be applied to real world business challenges by a practicing data scientist. The course takes an Open, or technology-neutral approach, and includes a final lab which addresses a big data analytics challenge by applying the concepts taught in the course in the context of the Data Analytics Lifecycle. The course prepares the student for the Dell EMC Proven Professional Data Scientist Associate certification exam.

Virtual Class	40 Hours	ES722OCMDSBDA
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[Data Science and Big Data Analytics v2 On-Demand Lab - Europe](#)

This on-demand lab provides access to the lab environment provided in the Data Science and Big Data Analytics v2 courses. The guided lab exercises provides hands-on experience with the Greenplum database, the R Programming Language, and the Hadoop ecosystem, including Pig, Hive, and Spark. These tools are applied to analytical techniques such as K-mean clustering, association rules, linear regression, logistic regression, decision trees, naïve Bayes classification, text analysis, and time series analysis.

On Demand Lab	216 Hours	ES742OCMDSALE
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[Data Science and Big Data Analytics v2 On-Demand Lab - North America](#)

This on-demand lab provides access to the lab environment provided in the Data Science and Big Data Analytics v2 courses. The guided lab exercises provides hands-on experience with the Greenplum database, the R Programming Language, and the Hadoop ecosystem, including Pig, Hive, and Spark. These tools are applied to analytical techniques such as K-mean clustering, association rules, linear regression, logistic regression, decision trees, naïve Bayes classification, text analysis, and time series analysis.

On Demand Lab	216 Hours	ES742OCMDSALN
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[Data Warehousing with SQL and NoSQL - On-Demand Course](#)

With the rapid growth in the volume of data, organizations continue to be challenged with how to transact and later analyze this data in a timely manner. This course covers traditional data warehousing with SQL and newer approaches such as data lakes and NoSQL tools. Provide a mixture of theory and practical considerations, the on-demand course includes recorded lab exercise demonstrations of the Greenplum Database, Redis, Apache Cassandra, and Apache CouchDB. This course prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options.

On Demand Class	08 Hours	ES732OCMDATAW
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[Data Warehousing with SQL and NoSQL - On-Demand Lab](#)

This on-demand lab provides access to the lab environment provided in the Data Warehousing with SQL and NoSQL course that covers traditional data warehousing with SQL and newer approaches such as data lakes and NoSQL tools. The guided lab exercises provide hands-on experience with the following: Greenplum Database, Redis, Apache Cassandra, and Apache CouchDB. This on-demand lab supplements the training that prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options.

On Demand Lab	08 Hours	ES742OCMDATAW
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[Deep Reinforcement Learning Strategies, Algorithms, and Techniques - On-Demand Course](#)

This course describes the concept of deep reinforcement learning, reinforcement learning, neural networks and natural language processing. The course details about the usage of bellman equations, Mont Carlo, and Q learning algorithms. The course also provides a detail description about the types and process of training a neural network and approaches of NLP and outlines their application areas. This course includes a separate on-demand lab demonstrating concepts of reinforcement learning, neural network, and NLP process using Python and evaluates and predicts different dataset models.

On Demand Class	05 Hours 45 Minutes	ESOCMD02258
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[Deep Reinforcement Learning Strategies, Algorithms, and Techniques - On-Demand Lab](#)

The lab helps to build neural networks such as LSTM and CNN and helps to understand the Markov process, Montecarlo and Q learning techniques. The lab implements NLP and provides information about how to build a conversational bot.

On Demand Lab	30 Minutes	ESOCMD02265
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[ETL Offload with Hadoop and Spark - On-Demand Course](#)

As data volumes continue to grow, more and more demands are placed on data warehousing resources to not only host an organization's data, but also merge and prepare the data for end-user consumption. This course covers how off-loading the Extract-Transform-Load (ETL) processes from a data warehouse can improve delivery times and enable the inclusion of new sources of data. This on-demand course includes recorded lab exercise demonstrations of several Apache Hadoop ecosystem tools: Hadoop Distributed File System (HDFS), Spark, Flume, Sqoop, and Oozie. This course prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options.

On Demand Class	08 Hours	ES732OCMETLHS
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[ETL Offload with Hadoop and Spark - On-Demand Lab](#)

This on-demand lab provides access to the lab environment provided in the ETL Off-load with Hadoop and Spark course that covers how off-loading the Extract-Transform-Load (ETL) processes from a data warehouse can improve delivery times and enable the inclusion of new sources of data. The guided lab exercises provide hands-on experience with the following Apache Hadoop ecosystem tools: Hadoop Distributed File System (HDFS), Spark, Flume, Sqoop, and Oozie. This on-demand lab supplements the training that prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options.

On Demand Lab	08 Hours	ES742OCMETLHS
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[Implementing AI and ML in the Enterprise - On-Demand Course](#)

This course describes the concept of AI and ML. The course provides a detailed description about the scope and need of AI and helps to understand the impact of AI in enabling human progress and transforming business. The course provides information about various application areas across the business and outlines the importance of building an AI team and helps to understand different roles in the team. The course also offers hands-on labs that helps to understand the concepts of Python and its importance in AI and ML.

On Demand Class	01 Hours 30 Minutes	ESOCMD02245
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[Implementing AI and ML in the Enterprise - On-Demand Lab](#)

The lab provides information about python programming and explains syntax and libraries used.

On Demand Lab	02 Hours 30 Minutes	ESOCMD02263
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[Introducing Data Science and Big Data Analytics for Business Transformation](#)

Businesses are increasingly looking to take advantage of Big Data to be competitive. To do this, organizations need data-savvy business leaders who can identify opportunities to solve business problems using advanced analytics. This course provides business leaders with a baseline understanding of Data Science and Big Data. Specifically, it addresses: illustrative examples of Data Science and Big Data Analytics in three industry verticals, deriving business value from Big Data, characteristics of Big Data, and key elements to consider for driving the change toward Big Data projects.

On Demand Class	01 Hours 15 Minutes	MR-1TN-NDSFBLIN
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[Introduction to Data Engineering](#)

For over 10 years, there has been an intense focus by companies to extract business value from their data. Out of this activity, a role called the data scientist emerged. However, it quickly became obvious that a majority of a data scientist's time was spent on data preparation or moving analytical models into production environments. Thus, the data engineer has emerged as a highly desirable and indispensable member of an analytics project team. The course covers the data analytics life cycle, the role of the data engineering, and the skill set of a successful data engineer. This course prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options.

On Demand Class	20 Minutes	ES731OCMIDENG
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[Machine Learning Models and Use Cases - On-Demand Course](#)

The field of Machine Learning and AI is so far reaching that it has had an impact on pretty much every field of study and pretty much every industry. Some of the use cases of Machine Learning also have profound impact on the way we consume data and share information in the modern world. This course gives an introduction to application of Machine Learning models in multiple industries and modes of data.

On Demand Class	30 Minutes	ESOCMD02261
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[Machine Learning Strategies, Algorithms, and Techniques - On-Demand Course](#)

This course describes the concept of various machine learning methods and algorithms associated with each method. The course provides the detailed description of each machine learning techniques and helps to understand different algorithms. The course helps to understand understands the different classification, regression, clustering, and dimensionality reduction techniques. This course includes a separate on-demand lab demonstrating exploratory data analysis, supervised learning using Python and unsupervised learning using Python to evaluate and predict different dataset models.

On Demand Class	06 Hours 30 Minutes	ESOCMD02257
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[Machine Learning Strategies, Algorithms, and Techniques - On-Demand Labs](#)

The lab implements supervised and unsupervised learning algorithms through python.

On Demand Lab	01 Hours	ESOCMD02264
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[Processing Streaming and IoT Data - On-Demand Course](#)

Due to the proliferation of smart devices and the growing need for real-time analysis, the legacy batch processing approaches are insufficient to support modern applications such as credit card fraud detection, cybersecurity protection, and automobile navigation. This course introduces such use cases and the approaches to process streaming data generated by the Internet of Things (IoT). To process and analyze IoT data, this course covers several Apache tools: Storm, Kafka, Spark Streaming, and Flink. Additionally, Pravega, a new storage paradigm, is covered as well as emerging IoT projects, Project Nautilus and EdgeX Foundry. The on-demand course includes recorded lab exercise demonstrations of the Apache tools

On Demand Class	08 Hours	ES732OCMPSIOT
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[Processing Streaming and IoT Data - On-Demand Lab](#)

This on-demand lab provides access to the lab environment provided in the Processing Streaming and IoT Data course which covers approaches to process streaming data generated by the Internet of Things (IoT). The guided lab exercises provide hands-on experience with the following Apache tools: Storm, Kafka, Spark Streaming, and Flink. These tools enable the processing and analysis of streaming data sets. This on-demand lab supplements the training that prepares the learner for a key portion of the Dell Technologies Proven Professional data engineering specialist-level certification exam (DES-7DE1). Review the exam description document to understand all the related data engineering training and consumption options

On Demand Lab	08 Hours	ES742OCMPSIOT
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[Understanding the Concepts of AI and ML](#)

This course describes the concept of AI and ML. The course provides a detailed description about the scope and need of AI and helps to understand the impact of AI in enabling human progress and transforming business. The course explains the concepts of artificial intelligence, machine learning, and deep learning.

On Demand Class	15 Minutes	ESOCMD02346
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Cloud

[Cloud Infrastructure and Services v3 - ILT](#)

Digital transformation is a priority for all businesses. Emerging technology trends such as mobile, big data analytics and social media are driving organizations to optimize and innovate business models. As businesses adopt a digital mindset they need to innovate faster or be left behind in an increasingly digital market. This course provides an overview of digital transformation, role of Cloud to help organizations address the current IT challenges to meet their overall digital transformation objectives. This [Cloud Essentials](#) course will help to gain the knowledge on technologies, processes, and mechanisms required to build a cloud infrastructure. This course takes an open approach, and uses the Cloud Reference Architecture to describe the concepts and technologies related to cloud computing, which is further illustrated and reinforced with DELL EMC product examples.

Classroom	32 Hours	MR-9CP-CISV3
Virtual Class	32 Hours	MR-9CP-CISV3

[Cloud Infrastructure and Services v3 - On-demand Course](#)

Digital transformation is a priority for all businesses. Emerging technology trends such as mobile, big data analytics and social media are driving organizations to optimize and innovate business models. As businesses adopt a digital mindset they need to innovate faster or be left behind in an increasingly digital market. This course provides an overview of digital transformation, role of Cloud to help organizations address the current IT challenges to meet their overall digital transformation objectives. This cloud essentials course will help to gain the knowledge on technologies, processes, and mechanisms required to build a cloud infrastructure. This course takes an open approach, and uses the Cloud Reference Architecture to describe the concepts and technologies related to cloud computing, which is further illustrated and reinforced with DELL EMC product examples. This training prepares the learner for the Dell Technologies Proven Professional associate-level certification exam (D EA-2TT3). Suggested: Customers can search for

On Demand Class	32 Hours	MR-1TP-CISV3-0219
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[Cloud Infrastructure and Services v3 - Online ILT](#)

Digital transformation is a priority for all businesses. Emerging technology trends such as mobile, big data analytics and social media are driving organizations to optimize and innovate business models. As businesses adopt a digital mindset they need to innovate faster or be left behind in an increasingly digital market. This course provides an overview of digital transformation, role of Cloud to help organizations address the current IT challenges to meet their overall digital transformation objectives. This [cloud essentials](#) course will help to gain the knowledge on technologies, processes, and mechanisms required to build a cloud infrastructure. This course takes an open approach, and uses the Cloud Reference Architecture to describe the concepts and technologies related to cloud computing, which is further illustrated and reinforced with DELL EMC product examples.

Virtual Class	32 Hours	MR-9LP-CISV3
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[Cloud Infrastructure Planning and Design v2 - Classroom](#)

This course presents the knowledge and skills to successfully design a cloud infrastructure that supports multiple types of services. The course takes an "open" approach and outlines infrastructure, application platform, and cloud management platform as the fundamental layers in a cloud. It explores the business needs and challenges that have led the organization to adopt a cloud solution. This course highlights the benefits, challenges, and considerations of design choices and emphasizes the importance of proper requirements gathering in the design process. Additionally, students are provided with opportunities to practice these new skills while performing exercises and labs. This course prepares the student for the Dell Technologies Proven Professional Cloud Architect Specialist level certification exam

Classroom	40 Hours	ES712OCMCIPD2
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[Cloud Infrastructure Planning and Design v2 - On-Demand Course](#)

This course presents the knowledge and skills to successfully design a cloud infrastructure that supports multiple types of services. The course takes an "open" approach and outlines infrastructure, application platform, and cloud management platform as the fundamental layers in a cloud. It explores the business needs and challenges that have led the organization to adopt a cloud solution. This course highlights the benefits, challenges, and considerations of design choices and emphasizes the importance of proper requirements gathering in the design process. Additionally, students are provided with opportunities to practice these new skills while performing exercises and labs. This course prepares the student for the Dell Technologies Proven Professional Cloud Architect certification exam.

On Demand Class	16 Hours	ES732OCMCIPD2
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[Cloud Infrastructure Planning and Design v2 - Virtual Classroom](#)

This course presents the knowledge and skills to successfully design a cloud infrastructure that supports multiple types of services. The course takes an "open" approach and outlines infrastructure, application platform, and cloud management platform as the fundamental layers in a cloud. It explores the business needs and challenges that have led the organization to adopt a cloud solution. This course highlights the benefits, challenges, and considerations of design choices and emphasizes the importance of proper requirements gathering in the design process. Additionally, students are provided with opportunities to practice these new skills while performing exercises and labs. This course prepares the student for the Dell Technologies Proven Professional Cloud Architect Specialist level certification exam.

Virtual Class	40 Hours	ES722OCMCIPD2
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[Cloud Services Management](#)

This course provides technical professionals the knowledge and skills necessary to plan and design for robust cloud services. The course focuses on the governance, organizational, financial, and technology aspects as well as the management and operation of cloud services. The six key areas covered in this course are: 1) Cloud Services Lifecycle and Management, 2) Workforce Transformation for Cloud Services, 3) Multi-Cloud Strategy for Cloud Services, 4) Cloud Services Operating Model, 5) Cloud - Native Application Development , and 6) Business Resiliency for Cloud Services.

Classroom	40 Hours	ES104OCM02095
Virtual Class	40 Hours	ES104OCM02095

[Cloud Services Management](#)

This course provides technical professionals the knowledge and skills necessary to plan and design for robust cloud services. The course focuses on the governance, organizational, financial, and technology aspects as well as the management and operation of cloud services. The seven key areas covered in this course are: 1) transforming tradition IT to digital IT, 2) Cloud Services Lifecycle and Management, 3) Workforce Transformation for Cloud Services, 4) Multi-Cloud Strategy for Cloud Services , 5) Cloud Services Operating Model, 6) Cloud-Native Application Development , and 7) Business Resiliency for Cloud Services.

On Demand Class	40 Hours	ESOCMD03118
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[Cloud-Native Application Development](#)

To fully take advantage of cloud resources, it is essential to develop cloud-native applications. This course covers how to modernize existing applications and develop cloud-native applications using the 12-factor app methodology. This course also covers several key enablers of cloud-native apps: DevOps, DevSecOps, CI/CD, microservices, containers, and version control systems.

On Demand Class	06 Hours	ES104OCM02092
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[Data Protection](#)

[Data Protection and Management](#)

Data Protection and Management (DPM) is a unique course that provides a comprehensive understanding of various data protection and availability solutions for modern data protection wherever data lives including Cloud, data center or edge devices. It enables participants to make informed decisions on data protection architecture and technologies in an increasingly complex IT environment, which is fast changing with the adoption of software-defined data center (SDDC) and Cloud, Big Data, Social, and Edge. This course provides a strong understanding of fault-tolerant IT infrastructure, data backup, data deduplication, data replication, data archiving, and data migration and prepares participants for advanced data protection concepts, technologies, and processes. Participants will learn cloud-based data protection techniques, SDDC-specific data protection, and solutions for protecting Big Data, cloud and mobile device data. Moreover, the course covers the highly critical areas of data security including ransomware protection, cyber

On Demand Class	20 Hours	ESOCMD02636
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[Data Protection and Management](#)

Data Protection and Management (DPM) is a unique course that provides a comprehensive understanding of various data protection and availability solutions for modern data protection wherever data lives including Cloud, data center or edge devices. It enables participants to make informed decisions on data protection architecture and technologies in an increasingly complex IT environment, which is fast changing with the adoption of software-defined data center (SDDC) and Cloud, Big Data, Social, and Edge. This course provides a strong understanding of fault-tolerant IT infrastructure, data backup, data deduplication, data replication, data archiving, and data migration and prepares participants for advanced data protection concepts, technologies, and processes. Participants will learn cloud-based data protection techniques, SDDC-specific data protection, and solutions for protecting Big Data, cloud and mobile device data. Moreover, the course covers the highly critical areas of data security including ransomware protection, cyber

Classroom	32 Hours	ESOCMS02637
Virtual Class	32 Hours	ESOCMS02637

Instructor Session

[Automation with PowerStore - Instructor Session](#)

Instructor Sessions is a 4-hour interactive live learn digital experience led by Global Lead Instructors, each session focuses on transformation themes and technologies; automation, simplified workloads, emerging tech. Learners will be provided with specialist content, use cases, bonus material, access to lead instructors. This session will enable you to leverage PowerStore Management REST API's that enables interactive, scripted, and programmatic management control of the PowerStore cluster. You'll explore Ansible modules to quickly deploy new devices, change network configurations and audit running network device configurations to manage storage requirements and learn how PowerStore Manager CLI is used to write commands in scripts for automating routine tasks.

Classroom	04 Hours	ESXPPSTORES004
Virtual Class	04 Hours	ESXPPSTORES004

[Automation with VxRail - Instructor Session](#)

Instructor Sessions is a 4-hour interactive live learn digital experience led by Global Lead Instructors, each session focuses on transformation themes and technologies; automation, simplified workloads, emerging tech. Learners will be provided with specialist content, use cases, bonus material, access to lead instructors. During the session you will:

- Learn about the VxRail ecosystem and leverage its automation capabilities
- Elevate performance of automated VxRail operations using the latest tools
- Experience live demonstrations of customer use cases and apply these examples to your environment
- Increase your knowledge of VxRail API tools such as PowerShell and Ansible modules
- Receive bonus material to support you in your automation journey

Classroom	04 Hours	ESXPVXRAILS001
Virtual Class	04 Hours	ESXPVXRAILS001

[Data Protection Solutions - The Vault - Instructor Session](#)

Instructor Sessions is a 4-hour interactive live learn digital experience led by Global Lead Instructors, each session focuses on transformation themes and technologies; automation, simplified workloads, emerging tech. Learners will be provided with specialist content, use cases, bonus material, access to lead instructors. During the session you will:

- Explore how the threat landscape and its actors continue to evolve
- Discuss the role of the attacker, risks, and the impact of data breaches through a simulated attack
- Discover how operating cyber recovery vault processes equip your organization with the highest level of data protection and integrity
- View a demonstration of how PowerProtect Cyber Recovery goes beyond the ability to back up and restore data
- Gain confidence using methods that protect vital data from cyber-attacks using proven modern data protection solutions

Classroom	04 Hours	ESXPDPSS002
Virtual Class	04 Hours	ESXPDPSS002

[Discover DevSecOps - Instructor Session](#)

Instructor Sessions is a 4-hour interactive live learn digital experience led by Global Lead Instructors, each session focuses on transformation themes and technologies; automation, simplified workloads, emerging tech. Learners will be provided with specialist content, use cases, bonus material, access to lead instructors. DevSecOps is the incorporation of security into the software development lifecycle, alongside development and operations. Enterprises that embrace DevSecOps are more likely to catch design flaws and vulnerabilities early, resulting in more secure product releases, while still shrinking development cycles. This session focuses on principles, processes, and technical skills needed to elevate security and risk profiling to a front-end priority: embracing a "quality first" mindset.

Classroom	04 Hours	ESXPDEVSSOPSS003
Virtual Class	04 Hours	ESXPDEVSSOPSS003

ISM

[Information Storage and Management v5](#)

This unique course provides a comprehensive mastery of the various storage infrastructure components and options in a modern data center environment. Participants will learn to apply storage-related technologies in a fast changing and complex IT environment due to the adoption of new technologies such as cloud, edge computing, Big Data, IoT, AI/ML, and 5G). This course covers intelligent storage systems, networking technologies business continuity solutions, information security, and storage infrastructure management. The course content takes an open-approach to describe all the concepts and technologies, which are further illustrated and reinforced with Dell product examples. The training prepares the learner for the Dell Technologies Proven Professional Information and Storage and Management Version 5.0 associate-level certification exam (DEA-1TT5) to be available in February 2022.

Classroom	40 Hours	ESOCMS03293
Virtual Class	40 Hours	ESOCMS03293

[Information Storage and Management v5](#)

This unique course provides a comprehensive mastery of the various storage infrastructure components and options in a modern data center environment. Participants will learn to apply storage-related technologies in a fast changing and complex IT environment due to the adoption of new technologies such as cloud, edge computing, Big Data, IoT, AI/ML, and 5G). This course covers intelligent storage systems, networking technologies business continuity solutions, information security, and storage infrastructure management. The course content takes an open-approach to describe all the concepts and technologies, which are further illustrated and reinforced with Dell product examples. The training prepares the learner for the Dell Technologies Proven Professional Information and Storage and Management Version 5.0 associate-level certification exam (DEA-1TT5) to be available in February 2022.

On Demand Class	40 Hours	ESOCMD03294
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ITIL

[ITIL 4 Foundation Certification Course](#)

This course prepares the learner to take the ITIL® 4 Foundation Certificate exam in IT Service Management. The course will introduce the learner to the key elements, concepts and terminology used in the ITIL® 4 Certification Scheme. The ITIL® 4 Foundation exam is always included with the successful completion of this course. Please view the attached Course Description for the full course and exam details. ITIL® is a registered trademark of AXELOS Limited, used under permission of AXELOS Limited. All rights reserved.

Virtual Class	24 Hours	MR-1LN-DELLEMCTIL4FC
Classroom	24 Hours	MR-1LN-DELLEMCTIL4FC

[ITIL 4 Foundation Certification Course - On Demand](#)

This course prepares the student to take the ITIL® 4 Foundation Certificate exam in IT Service Management. The course will introduce the student to the key elements, concepts and terminology used in the ITIL® 4 Certification Scheme. The ITIL® 4 Foundation exam is included with this on demand course. Please view the attached Course Description for the full course and exam details. ITIL® is a registered trademark of AXELOS Limited, used under permission of AXELOS Limited. All rights reserved.

On Demand Class	24 Hours	ESDTFD03640
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Open Curriculum

[Cybersecurity On-Demand Training Package - Package](#)

This package includes the following courses:

- Dell PowerProtect Cyber Recovery Administration(On Demand Class, 03 Hours)

Security

[Implementing the NIST Cybersecurity Framework](#)

This course covers the NIST Cybersecurity Framework and shows how it can be used to promote security in a company's infrastructure. At the completion of this course, students will understand details of the framework and gain insight to underlying process and practices used to integrate NIST principals and begin improving their organizations Cybersecurity Resiliency.

On Demand Class	05 Hours	ES132DSY00786
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Enterprise Storage

AppSync

[AppSync Concepts](#)

The course provides an overview of AppSync, its features, capabilities, and key use cases. An overview of common management tasks, supported applications, and support storage environments are also covered. An overview of common management tasks, supported applications, and support storage environments are also covered.

On Demand Class	02 Hours 30 Minutes	ESSTGD03131
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[AppSync Installation, Upgrade and Implementation](#)

This courses covers AppSync installation, upgrade and implementation procedures.

On Demand Class	03 Hours	ESSTGD03130
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[AppSync Integration with MS Exchange](#)

The AppSync Integration with MS Exchange course is designed to highlight the major considerations when providing data protection to MS Exchange using Dell EMC AppSync.

On Demand Class	03 Hours	MR-1WN-APPSYNCEXCH
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[AppSync Integration with MS SQL](#)

The AppSync Integration with MS SQL course is designed to highlight the major considerations when providing data protection to MS SQL databases using Dell EMC AppSync.

On Demand Class	03 Hours	MR-1WN-APPSYNCSQL
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[AppSync Integration with Oracle](#)

The AppSync Integration with Oracle course is designed to highlight the major considerations when providing data protection to Oracle database using Dell EMC AppSync.

On Demand Class	03 Hours	MR-1WN-APPSYNCORCL
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[AppSync Integration with SAP HANA](#)

The course covers AppSync integration with SAP HANA.

On Demand Class	01 Hours 30 Minutes	ESSTGD03222
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[AppSync Integration with VMware vSphere](#)

[Introduction to Cybersecurity Frameworks](#)

This eLearning provides students with an introduction to common IT frameworks. There is particular focus on the NIST Cybersecurity Framework which is gaining traction and international acceptance as a best practice guide for identifying, measuring, and managing cybersecurity risk. Major components of the framework including the "core", "tiers" and "profiles" will be explained along with brief examples of how these are used.

On Demand Class	01 Hours	ES131DSY00354
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This course covers the product version requirements and prerequisite configurations needed for a working solution while using AppSync to protect VMware environments. This course also provides a demonstration of the steps required to configure AppSync Service Plans, mount and unmount datastore copies and address the considerations and options when restoring either datastores and/or virtual machines.

On Demand Class	02 Hours	MR-1WN-APPSYNCEXCH
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[AppSync Administration and Integration - Package](#)

This ValuePack provides a set of AppSync courses that introduce learners to the automation of data protection tasks. This package is a complete set of overviews, installation and configuration steps that minimize deployment efforts.

This package includes the following courses:

- AppSync Integration with MS Exchange(On Demand Class, 03 Hours)
- AppSync Integration with MS SQL(On Demand Class, 03 Hours)
- AppSync Integration with Oracle(On Demand Class, 03 Hours)
- AppSync Integration with VMware vSphere(On Demand Class, 02 Hours)
- Getting Started with AppSync(On Demand Class, 02 Hours)
- AppSync Concepts(On Demand Class, 02 Hours 30 Minutes)
- AppSync Installation, Upgrade and Implementation(On Demand Class, 03 Hours)
- AppSync Integration with SAP HANA(On Demand Class, 01 Hours 30 Minutes)

[Disk Library for Mainframe](#)

[Disk Library for mainframe \(DLm\) Fundamentals](#)

This course provides an overview of DLm Gen 3, Gen 4 and Gen 5 products infrastructure components. The course also covers the Command Processors scripts, GENSTATS for reporting and describes the DLm replication capabilities. The course reviews the remote management tools and support tools used with the DLm.

On Demand Class	01 Hours 30 Minutes	MR-1WN-DLMFND
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[Disk Library for mainframe \(DLm\) Management](#)

Assessment	05 Minutes	MR-1ZN-DLMIM
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[Disk Library for mainframe \(DLm\) Management](#)

This course covers Disk Library for mainframe DLm (Gen5) management software. The student will learn about the software that is loaded, for management purposes, on the DLm main system bay, the Virtual Tape Emulation Controller (VTEC). An introduction to management software that is available for Data Domain storage is also presented.

On Demand Class	02 Hours	ES132STG00449
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[Disk Library for mainframe \(DLm\) Replication Considerations](#)

This course covers Disk Library for mainframe DLm (Gen5) replication considerations for a z/OS environment. The student will learn about the DLm back-end storage replication options that are available, the use cases for each, and be presented with requirements and considerations to take into account for each.

On Demand Class	02 Hours	ES132STG00312
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[Disk Library for mainframe\(DLm\) z/OS Administration](#)

This course covers Disk Library for mainframe DLm (Gen5) management and configuration from the z/OS perspective. The student will learn about the DLm z/OS software that is available, view sample JCL decks, and be presented with requirements and considerations to take into account for using DLm in the z/OS environment.

On Demand Class	01 Hours 30 Minutes	ES132STG00310
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[DLm2500 System Manager User Interface Concepts](#)

This course covers the new System Manager (SM) UI which is used with DLm2500. Each section of the SM main menu is looked at in detail. This course is intended for personnel who install and Manage DLm products, and those who perform maintenance functions on the DLm2500

On Demand Class	45 Minutes	ES101STG02010
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[DLm8500 System Manager User Interface Concepts](#)

This course covers the new System Manager (SM) UI which is used with DLm8500. Each section of the SM main menu is looked at in detail. This course is intended for personnel who install and manage DLm products and those who perform maintenance functions on the DLm8500 .

On Demand Class	01 Hours	ESSTGD02421
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[Disk Library for mainframe\(DLm\) Implementation ValuePak - Package](#)

This package focuses on the implementation of a Disk Library for mainframe(DLm) solution. It includes the benefits, the business and technical requirements, its architecture and key components, as well as key features and capabilities. Also included is an introduction to the DLm management software, DLm z/OS administration and DLm Replication considerations

This package includes the following courses:

- Disk Library for mainframe (DLm) Fundamentals(On Demand Class, 01 Hours 30 Minutes)
- Disk Library for mainframe (DLm) Management(On Demand Class, 02 Hours)
- Disk Library for mainframe(DLm) z/OS Administration(On Demand Class, 01 Hours 30 Minutes)
- Disk Library for mainframe (DLm) Replication Considerations(On Demand Class, 02 Hours)
- DLm2500 System Manager User Interface Concepts(On Demand Class, 45 Minutes)
- DLm8500 System Manager User Interface Concepts(On Demand Class, 01 Hours)

[Metro node](#)

[Metro node Concepts](#)

This course provides the learner with a basic understanding of the concepts for metro node. Both software and hardware concepts are discussed.

On Demand Class	30 Minutes	ESDPSD02670
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[Metro node Features](#)

This course provides the learner with a basic understanding of the features for metro node.

On Demand Class	01 Hours	ESDPSD02671
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[PowerMax](#)

[PowerMax and VMAX All Flash Multi-Site SRDF Solutions](#)

This course covers PowerMax and VMAX All Flash multi-site SRDF solutions comprising Concurrent SRDF, Cascaded SRDF, and SRDF/Star in Open Systems environments. Underlying SRDF technologies used to implement SRDF/Star are discussed in detail. SRDF/Star in both concurrent and cascaded modes is covered. SRDF/Star operations under normal and fault conditions including the procedures for moving a production workload to another site are described.

On Demand Class	06 Hours	ESSTGD02754
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[PowerMax and VMAX All Flash Non-Disruptive Migration \(NDM\)](#)

This course presents Non-Disruptive Migration (NDM) administration and management using Unisphere and Solutions Enabler. The course includes an overview of Metro-based and Pass-through modes and Non-Disruptive Migrations using Unisphere for PowerMax 9.2 and Solutions Enabler 9.2

On Demand Class	03 Hours	ES132STG00364
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[PowerMax and VMAX All Flash Performance](#)

This workshop introduces the methodology for analyzing the performance of PowerMax and VMAX All Flash storage arrays. Metrics that are relevant for analysis of each of the components in the arrays are presented. Participants will learn to identify bottlenecks for performance and provide recommendations to remedy the problem. Hands-on lab exercises using performance archives reinforce the concepts and methodology presented in the lectures.

Classroom	24 Hours	ESSTGS02756
Virtual Class	24 Hours	ESSTGS02756

[PowerMax and VMAX All Flash Performance Private Classroom](#)

This workshop introduces the methodology for analyzing the performance of PowerMax and VMAX All Flash storage arrays. Metrics that are relevant for analysis of each of the components in the arrays are presented. Participants will learn to identify bottlenecks for performance and provide recommendations to remedy the problem. Hands-on lab exercises using performance archives reinforce the concepts and methodology presented in the lectures.

Private Classroom	24 Hours	ESSTGP03163
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[PowerMax and VMAX All Flash Security Concepts](#)

This Specialist level course provides participants with an understanding of potential security exposure and how these vulnerabilities are addressed within the PowerMax and VMAX All Flash family. The course begins with a discussion of potential system vulnerabilities and how each are addressed. For environments with stringent financial or regulatory requirements and for reputation protection, the PowerMax and VMAX All Flash has additional techniques that can be implemented to further secure the system. This course focuses on the security design of the system and how to plan, implement, and manage these advanced security features.

On Demand Class	03 Hours	ESSTGD02753
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[PowerMax and VMAX All Flash SRDF Metro Solutions](#)

This course covers the SRDF/Metro solution for PowerMax and VMAX All Flash arrays with PowerMaxOS and HYPERMAX OS. SRDF/Metro overview, benefits, theory of operations, configuration details, and best practices are covered. Implementation with bias, witness and vWitness is included, as well as administration and management using Unisphere for PowerMax and Solutions Enabler.

On Demand Class	01 Hours	ESSTGD02755
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[PowerMax and VMAX Family Configuration and Business Continuity Administration](#)

This Specialist level course provides participants with an in-depth understanding of configuration tasks on PowerMax and VMAX family arrays. It also provides the knowledge required to deploy and manage PowerMax and VMAX family array-based local and remote replication solutions for business continuity needs. Key features and functions of the arrays are covered in detail. Topics include storage provisioning concepts, virtual provisioning, device creation and port management, and service level-based storage allocation to hosts. Operational details and implementation considerations for Dell EMC TimeFinder SnapVX and Symmetrix Remote Data Facility (SRDF) are covered. Participants will use Unisphere for PowerMax/VMAX and Solutions Enabler (SYMCLI) to manage configuration changes on the arrays.

Classroom		ES132STG00371
On Demand Class	40 Hours	ES132STG00371

[PowerMax and VMAX Family Configuration and Business Continuity Administration](#)

This Specialist level course provides participants with an in-depth understanding of configuration tasks on PowerMax and VMAX All Flash arrays. It also provides the knowledge required to deploy and manage PowerMax and VMAX All Flash array-based local and remote replication solutions for business continuity needs. Key features and functions of the arrays are covered in detail. Topics include storage provisioning concepts, virtual provisioning, device creation and port management, and service level-based storage allocation to hosts.

Virtual Class	40 Hours	ES122STG00644
Classroom	40 Hours	ES122STG00644

[PowerMax and VMAX Family Configuration and Business Continuity Administration](#)

This Specialist level course provides participants with an in-depth understanding of configuration tasks on PowerMax and VMAX family arrays. It also provides the knowledge required to deploy and manage PowerMax and VMAX family array-based local and remote replication solutions for business continuity needs. Key features and functions of the arrays are covered in detail. Topics include storage provisioning concepts, virtual provisioning, device creation and port management, and service level-based storage allocation to hosts. Operational details and implementation considerations for Dell EMC TimeFinder SnapVX and Symmetrix Remote Data Facility (SRDF) are covered. Participants will use Unisphere for PowerMax/VMAX and Solutions Enabler (SYMCLI) to manage configuration changes on the arrays. Hands-on lab exercises using Symmetrix Command Line Interface (SYMCLI) and Unisphere for PowerMax will be performed on Open Systems hosts attached to PowerMax and VMAX3 arrays.

Classroom	40 Hours	ES112STG00370
Virtual Class		ES112STG00370

[PowerMax and VMAX Family Local Replication Concepts](#)

This course provides an introduction to local replication offerings for PowerMax, VMAX All Flash, and VMAX3 arrays. It includes an overview of the TimeFinder SnapVX architecture, features, and functionality. This course also provides a basic understanding of TimeFinder disaster recovery concepts and terminology.

On Demand Class	01 Hours 30 Minutes	ES132STG00367
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[PowerMax and VMAX Family Remote Replication Concepts](#)

This course covers an introduction to Remote Replication. It includes an overview of the PowerMax and VMAX Family Remote Replication architecture, features, and functionality. This course also provides a basic understanding of Symmetrix Remote Data Facility (SRDF) modes of operations, disaster recovery concepts and terminology.

On Demand Class	02 Hours	ES132STG00368
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[PowerMax Concepts and Features](#)

This course provides an introduction to PowerMax arrays. It includes an overview of the architecture, configuration options, software options and use cases.

On Demand Class	01 Hours	ES131STG00363
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[Solutions Enabler Implementation](#)

This course provides an overview of the installation of Solutions Enabler on Windows and UNIX platforms. It covers the usage of commonly used options and environment variables that govern the behavior of Solutions Enabler. It discusses gatekeeper management and the functions of various Solutions Enabler daemons. License management is also covered.

On Demand Class	02 Hours	ES132STG00365
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[DCE - PowerMax and VMAX All Flash Solutions \[Classroom\] - Package](#)

This learning path focusses on the knowledge and skills required to analyze and understand the performance of PowerMax and VMAX All Flash arrays, articulate PowerMax and VMAX All Flash Security Concepts, use SRDF for three-site remote replication and Metro solutions and perform non-disruptive migrations to PowerMax and VMAX All Flash Arrays.

This package includes the following courses:

- PowerMax and VMAX All Flash Non-Disruptive Migration (NDM)(On Demand Class, 03 Hours)
- PowerMax and VMAX All Flash SRDF Metro Solutions(On Demand Class, 01 Hours)
- PowerMax and VMAX All Flash Performance(Classroom, 24 Hours|Virtual Class, 24 Hours)
- PowerMax and VMAX All Flash Multi-Site SRDF Solutions(On Demand Class, 06 Hours)
- PowerMax and VMAX All Flash Security Concepts(On Demand Class, 03 Hours)

[PowerMax Storage Administrator ValuePak - Package](#)

This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

This package includes the following courses:

- PowerMax and VMAX All Flash Non-Disruptive Migration (NDM)(On Demand Class, 03 Hours)
- PowerMax Concepts and Features(On Demand Class, 01 Hours)
- PowerMax and VMAX Family Local Replication Concepts(On Demand Class, 01 Hours 30 Minutes)
- PowerMax and VMAX Family Remote Replication Concepts(On Demand Class, 02 Hours)
- Solutions Enabler Implementation(On Demand Class, 02 Hours)
- Unisphere for PowerMax Implementation and Administration(On Demand Class, 02 Hours)
- PowerMax and VMAX Family Configuration and Business Continuity Administration(Virtual Class, 40 Hours|Classroom, 40 Hours)
- PowerMax and VMAX Family Configuration and Business Continuity Administration(Virtual Class|Classroom, 40 Hours)
- PowerMaxOS 10 Differences for Customers(On Demand Class, 30 Minutes)
- PowerMaxOS 10 Concepts and Features(On Demand Class, 30 Minutes)
- Solutions Enabler 10.0 Implementation Differences(On Demand Class, 30 Minutes)
- PowerMaxOS 10 Local and Remote Replication Concepts Differences(On Demand Class, 15 Minutes)
- Unisphere for PowerMax 10 Implementation and Administration Differences(On Demand Class, 30 Minutes)
- PowerMaxOS 10 Configuration Administration and Business Continuity Administration Differences(On Demand Class, 01 Hours)

[PowerMax Storage Administrator Video ValuePak - Package](#)

This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

This package includes the following courses:

- PowerMax and VMAX All Flash Non-Disruptive Migration (NDM)(On Demand Class, 03 Hours)
- PowerMax Concepts and Features(On Demand Class, 01 Hours)
- PowerMax and VMAX Family Local Replication Concepts(On Demand Class, 01 Hours 30 Minutes)
- PowerMax and VMAX Family Remote Replication Concepts(On Demand Class, 02 Hours)
- Solutions Enabler Implementation(On Demand Class, 02 Hours)
- Unisphere for PowerMax Implementation and Administration(On Demand Class, 02 Hours)
- PowerMax and VMAX Family Configuration and Business Continuity Administration(Classroom|On Demand Class, 40 Hours)
- PowerMaxOS 10 Differences for Customers(On Demand Class, 30 Minutes)
- PowerMaxOS 10 Concepts and Features(On Demand Class, 30 Minutes)
- Solutions Enabler 10.0 Implementation Differences(On Demand Class, 30 Minutes)
- PowerMaxOS 10 Local and Remote Replication Concepts Differences(On Demand Class, 15 Minutes)
- Unisphere for PowerMax 10 Implementation and Administration Differences(On Demand Class, 30 Minutes)
- PowerMaxOS 10 Configuration Administration and Business Continuity Administration Differences(On Demand Class, 01 Hours)

Unisphere

[Unisphere for PowerMax Implementation and Administration](#)

Unisphere for PowerMax is a simple, intuitive, browser-based user interface for configuration, management and performance monitoring of the PowerMax and VMAX family of arrays. This course will cover Unisphere for PowerMax functionality, architecture, installation and configuration.

On Demand Class	02 Hours	ES132STG00366
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VPLEX

[VPLEX 6.2 Differences - On Demand Course](#)

This On-Demand course describes and explains the new features available with VPLEX GeoSynchrony 6.2.

On Demand Class	30 Minutes	ES102STG01639
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[VPLEX Administration](#)

This course provides the learner with an in-depth understanding of how to manage, monitor and maintain a functional VPLEX system. Operational aspects of VPLEX (Local and Metro) using Unisphere for VPLEX and the VPLEX CLI are covered. Lab exercises provide hands-on experience. Provisioning virtualized storage from VPLEX to hosts and performing mobility and mirroring operations on live virtual volumes is emphasized. Integration of VPLEX into existing data centers with live production data and interoperability considerations are included.

Virtual Class	24 Hours	MR-1LN-VPLEXMGMT
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[VPLEX Administration](#)

This course provides the learner with an in-depth understanding of how to manage, monitor and maintain a functional VPLEX system. Operational aspects of VPLEX (Local and Metro) using Unisphere for VPLEX and the VPLEX CLI are covered. Lab exercises provide hands-on experience. Provisioning virtualized storage from VPLEX to hosts and performing mobility and mirroring operations on live virtual volumes is emphasized. Integration of VPLEX into existing data centers with live production data and interoperability considerations are included.

Classroom	24 Hours	MR-1CN-VPLEXMGMT
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[VPLEX Administration](#)

This course provides the learner with an in-depth understanding of how to manage, monitor and maintain a functional VPLEX system. Operational aspects of VPLEX (Local and Metro) using Unisphere for VPLEX and the VPLEX CLI are covered. Provisioning virtualized storage from VPLEX to hosts and performing mobility and mirroring operations on live virtual volumes is emphasized. Integration of VPLEX into existing data centers with live production data and interoperability considerations are included

On Demand Class	11 Hours	ESDPSD02667
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[VPLEX Concepts and Features](#)

This course provides an introduction to the VPLEX family of products. It includes an overview of VPLEX, its use cases, architecture, features, and management options.

On Demand Class	01 Hours	MR-1WP-VPLEXFD
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[VPLEX Performance](#)

This course focuses on the measurement of performance in VPLEX environments. It provides instruction on VPLEX monitoring operations, definition of potential performance issues, and bottlenecks. It also offers instruction on performance optimization techniques, tools, and procedures. There are recorded lab videos for further understanding of VPLEX Performance measurement techniques.

On Demand Class	01 Hours 30 Minutes	MR-1WN-VPLEXPERF
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[VPLEX Troubleshooting - Video ILT](#)

This course focuses on issue discovery and resolution in VPLEX environments. The course includes coverage of VPLEX operations, definition of potential faults, common miss-configurations, and connectivity requirements. Instruction on troubleshooting techniques, tools and procedures will be used to support lab activities. Scripted exercises and scenario labs will be provided with remote lab access to apply the techniques learned during the course. This course covers version 5.2

On Demand Class	24 Hours	MR-1TN-VPLEXTS-0792
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[VPLEX Systems Administration On-Demand Training - Package](#)

This package path focuses on management of VPLEX systems including product and technology details, VPLEX architecture, theory of operations, configuration requirements, and monitoring. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

This package includes the following courses:

- VPLEX Concepts and Features(On Demand Class, 01 Hours)
- VPLEX Administration(On Demand Class, 11 Hours)

[VPLEX Systems Administration Instructor Led Training - Package](#)

This package focuses on management of VPLEX systems including product and technology details, VPLEX architecture, theory of operations, configuration requirements, and monitoring. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

This package includes the following courses:

- VPLEX Concepts and Features(On Demand Class, 01 Hours)
- VPLEX Administration(Virtual Class, 24 Hours)
- VPLEX Administration(Classroom, 24 Hours)

XtremIO

[Optimizing Storage Services for Applications with XtremIO - Video ILT](#)

This course goes beyond simple administration and provides an in-depth understanding of how to leverage and optimize XtremIO features and capabilities in specific application areas. The course begins with providing coverage of operational aspects of the XtremIO environment, and then leads to XtremIO features and performance optimization. Lastly, it focuses on considerations and practices for system integration with specific application use cases and data protection solutions such as RecoverPoint and VPLEX.

On Demand Class	24 Hours	MR-1TP-XIO4APPS-1512
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[Optimizing Storage Services for Applications with XtremIO and X2](#)

This course goes beyond simple administration, providing an in-depth understanding of how to leverage and optimize XtremIO X2 features and capabilities in specific application areas. The course begins by providing hands-on coverage of operational aspects of the XtremIO X2 environment and then leads into features and performance optimization. Lastly, this course focuses on considerations and best practices for system integration with specific application use cases and industry leading data protection solutions such as Native Replication, RecoverPoint, VPLEX, and AppSync.

Classroom	24 Hours	MR-1CP-XIO4APPS
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[Optimizing Storage Services for Applications with XtremIO and X2 - Online ILT](#)

This in-class, Instructor-Led course goes beyond simple administration and provides in-depth understanding of how to leverage and optimize XtremIO and XtremIO X2 features and capabilities in specific application areas. The course begins with providing hands-on coverage of operational aspects of the XtremIO and X2 environments, and then leads to new XtremIO X2 features and performance optimization. Lastly, it focuses on considerations and best practices for system integration with specific application use cases and the industry's leading data protection solutions such as RecoverPoint, VPLEX, and AppSync.

Virtual Class	24 Hours	MR-1LP-XIO4APPS
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[Optimizing Storage Services for Applications with XtremIO and X2 VILT](#)

This recorded Instructor-Led course goes beyond simple administration and provides in-depth understanding of how to leverage and optimize XtremIO X2 features and capabilities in specific application areas. The course begins with providing hands-on coverage of operational aspects of the XtremIO X2 environment, and then leads to new XtremIO X2 features and performance optimization. Lastly, it focuses on considerations and best practices for system integration with specific application use cases and the industry's leading data protection solutions such as RecoverPoint, VPLEX, and AppSync.

On Demand Class	24 Hours	MR-1TP-XIO24APPS
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[XtremIO and X2 Integration with Oracle Best Practices](#)

This course introduces the methods and the best practices during integration of an XtremIO and X2 storage arrays with an Oracle environment. A brief overview of the XtremIO X2 cluster and its management is followed by an overview of the Oracle environment. The workload profile and storage challenges associated with Oracle environments are also presented and analyzed.

On Demand Class	01 Hours	MR-1WN-XIOINBPORC
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[XtremIO and X2 Integration with VDI Best Practices](#)

Entry and Midrange Storage

Apex

[APEX Data Storage Services: Block - Data Virtualization](#)

This course introduces the methods and the best practices during integration of an XtremIO and X2 storage arrays with a VDI environment. A brief overview of the XtremIO X2 cluster and its management is followed by an overview of the VDI environment. The workload profile and storage challenges associated with VDI environments are also presented and analyzed.

On Demand Class	01 Hours 30 Minutes	MR-1WN-XIOVDIBP
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[XtremIO Fundamentals](#)

This course provides an introduction to the EMC XtremIO product. It includes an overview of XtremIO architecture, features, functionality and management options.

On Demand Class	01 Hours 30 Minutes	MR-1WP-XIOFUND
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[XtremIO X2 Administration](#)

This course provides an overview of and demonstration of some of the XtremIO X2 management and monitoring options.

On Demand Class	01 Hours	ES132STG00576
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[XtremIO X2 Architecture](#)

This course provides an introduction to the XtremIO X2 hardware, architecture, use cases, and new features of XIOS 6.2.

On Demand Class	01 Hours	ES132STG00572
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[XtremIO X2 Concepts](#)

This course provides an overview of XtremIO X2 hardware, architecture, use cases, and new features of XIOS 6.2.

On Demand Class	01 Hours	ES132STG00573
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[XtremIO X2 Features](#)

This course focuses on the key features of thin storage array, data protection, and scale-up.

On Demand Class	01 Hours	ES132STG00574
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[XtremIO X2 Fundamentals](#)

This course provides an introduction to the EMC XtremIO X2 product. It includes an overview of XtremIO X2 architecture, features, functionality and management options.

On Demand Class	02 Hours	MR-1WP-XIO2FUND
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[XtremIO X2 Fundamentals - Japanese](#)

N/A no active classes available

On Demand Class	02 Hours	MR-1WP-XIO2FUND-JP
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[XtremIO X2 Integration](#)

This course provides an overview of the XtremIO X2 integration with Dell EMC eco-system products.

On Demand Class	45 Minutes	ES132STG00575
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The APEX Data Storage Services Element Manager allows you to adjust the configuration of your data storage service. This course will step through tasks you can do to configure storage services. Capacity management and access topics in this course cover VASA integration, vVols, virtual machine migration, and storage container operations for virtualized VMware environments.

On Demand Class	45 Minutes	ESSTGD00663
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[APEX Data Storage Services: Block - Host Configuration and Operation](#)

The APEX Data Storage Services Element Manager allows you to adjust the configuration of your data storage service. This course will step through tasks you can do to configure your block storage services. Host access topics in this course cover host connectivity protocol options, host and host group configurations, host multipathing configuration, CHAP authentication configuration for Windows, Linux, and ESXi hosts.

On Demand Class	45 Minutes	ESSTGD00799
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[APEX Data Storage Services: Block - Protection Policies and Data Protection](#)

The APEX Data Storage Services Element Manager allows you to adjust the configuration of your data storage service. This course will step through tasks you can do to configure your block storage services. Data protection topics in this course cover protection policies for block and virtualized storage resources, snapshots and thin clones, and data restore and refresh operations.

On Demand Class	35 Minutes	ESSTGD00250
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[APEX Data Storage Services: Block - Storage Container Configuration](#)

The APEX Data Storage Services Element Manager allows you to adjust the configuration of your data storage service. This course will step through tasks you can do to configure storage services. Storage and VMware VASA integration configuration tasks are detailed. Capacity management and access topics in this course cover creating and provisioning storage containers for vVol datastores to ESXi hosts in VMware environments.

On Demand Class	50 Minutes	ESSTGD00575
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[APEX Data Storage Services: Block - Volume and Volume Group Configuration and Operation](#)

The APEX Data Storage Services Element Manager allows you to adjust the configuration of your data storage service. This course will step through tasks you can do to configure your block storage services. Capacity and access management topics in this course cover creating and provisioning volumes and volume groups for Windows, Linux, and VMware ESXi hosts.

On Demand Class	01 Hours 15 Minutes	ESSTGD00397
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Cloud Tiering Appliance

[Cloud Tiering Appliance Fundamentals](#)

This course provides an introduction and basic understanding of the EMC Cloud Tiering Appliance (CTA) for a policy-based file archival or migration solution. It provides a general overview of CTA terminology, features, functions, and architecture.

On Demand Class	01 Hours	MR-1WN-CLTIAPE
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Connectrix

[Connectrix B-Series Architecture and Management Overview](#)

This course provides an introduction of Connectrix B-Series products. It includes an overview of hardware components, software configurations, most common features and management options. This course also includes an overview of B-Series FCoE hardware, including FCoE features and deployment considerations.

On Demand Class	02 Hours	MR-1WP-NSBROC
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PowerPath

[PowerPath Configuration and Administration](#)

This course is intended for individuals who will implement and manage a SAN environment using PowerPath as a Multi-pathing platform. This course goes into detail on the commands used to display and manipulate the PowerPath configuration as well as troubleshooting of problems within a SAN.

On Demand Class	02 Hours 30 Minutes	MR-1WP-PPADMN
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[PowerPath Fundamentals](#)

This course is intended for professionals who will be positioning, designing, deploying, managing and supporting a solution using PowerPath. It is also suitable for anyone seeking to learn the basics of PowerPath.

On Demand Class	01 Hours	MR-1WP-PWRPFD
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[PowerPath Migration Enabler Implementation](#)

This Course is designed for anyone involved with deploying and upgrading PowerPath Migration Enabler into EMC environments. The integral parts of the course include: overall positioning of the product; product architecture and operations; data migration planning and Migration Enabler procedures with regards to supported integrated products (Open Replicator, and Host-Based Logical Volume Manager). This course currently supports PowerPath version 6.0.

On Demand Class	01 Hours 15 Minutes	MR-1WN-NSPPMEI
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[PowerPath Troubleshooting](#)

This course provides the learner with a deeper understanding of how to approach troubleshooting for issues related to PowerPath environments. Examples are provided to help identify when issues are not related to PowerPath, such as host issues, SAN configuration issues and storage array issues. Common PowerPath issues are discussed such as installation issues, boot issues, connectivity issues, and configuration issues. Examples are given of common issues and solutions in Unix, Windows and VMware environments. Learners are also shown how to find existing documented solutions to common PowerPath issues.

On Demand Class	03 Hours	MR-1WN-PPTS
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[PowerPath/VE Implementation and Configuration](#)

This course focuses on the details for implementing and managing PowerPath/VE in a Virtual environment using PowerPath/VE. It details the steps to install PowerPath/VE as well as commands used to display and manipulate the PowerPath configuration. This course currently supports PowerPath/VE version 6.0.

On Demand Class	01 Hours 30 Minutes	MR-1WN-NSPPVE
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PowerStore

[PowerStore 3.0 - Instructor Hours](#)

This course provides a 1.5 hour slot for learners to ask questions of instructors on current technology and deeper discussion on the training material, learning paths and labs aligned to the following on demand courses: ESSTGD04768 - PowerStore 3.0 Concepts and Features, ESSTGD04638 - PowerStore 3.0 T Implementation, ESSTGD04639 - PowerStore 3.0 X Implementation, ESSTGD04640 - PowerStore 3.0 System Administration, ESSTGD04641 - PowerStore 3.0 Administration: File Provisioning, ESSTGD04642 - PowerStore 3.0 Administration: VMware Provisioning, ESSTGD04643 - PowerStore 3.0 Administration: Replication, ESSTGD04756 - PowerStore 3.0 Migration: Import External Storage, ESSTGD04321- PowerStore 3.0 Technical Differences – Customers. Sessions will be scheduled and aligned with class deliveries, based on strategic and learner/stakeholder.

Virtual Class	01 Hours 30 Minutes	ESSTGD00501IH
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[PowerStore Administration: Troubleshooting](#)

The course provides instruction for system troubleshooting, including data collection, managing alerts and events, identifying system components, and downloading support information from a PowerStore system. Troubleshooting tools covered include PowerStore Manager GUI, PowerStore CLI (PTCLI), and Service Console CLI.

On Demand Class	01 Hours 30 Minutes	ESSTGD03552
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[PowerStore Concepts and Features](#)

The course provides introductory technical knowledge of the PowerStore platform, the available models, its features, and functions.

On Demand Class	01 Hours 30 Minutes	ESSTGD03546
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[PowerStore Concepts, Features and Migration](#)

This course provides an overview of PowerStore array concepts and explains product features. This course also explains how to migrate from an external storage array to a PowerStore array.

On Demand Class	04 Hours	ES101STG01736
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[PowerStore Implementation](#)

The course provides instruction for system implementation, including configuring switches for PowerStore T and PowerStore X, running the Initial Configuration Wizard for PowerStore T and PowerStore X, and applying aPowerStore license.

On Demand Class	03 Hours	ESSTGD03544
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[PowerStore Implementation and Administration](#)

This 5-day course provides instruction for the implementation and administration of PowerStore systems. It includes a PowerStore system portfolio and feature introduction along with practice opportunities to achieve a functional production storage state. Day-to-day PowerStore administrative tasks for block, file, and VMware storage resources and services are also provided as well as basic troubleshooting.

Classroom	40 Hours	ESSTGS00852
Virtual Class	40 Hours	ESSTGS00852

[PowerStore Implementation and Administration](#)

This 3-day course provides instruction for the installation and cabling of PowerStore 2.0 systems. It includes PowerStore system initialization and deployment instructions along with practice opportunities to achieve a function production storage state. Day-to-day PowerStore administrative tasks for block, file, and VMware storage resources and services are also provided. The course includes PowerStore system hardware and software upgrades, and basic troubleshooting.

On Demand Class	24 Hours	ESSTGD00501
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[PowerStore Implementation and Administration](#)

This 5-day course provides instruction for the installation and cabling of PowerStore 2.0 systems. It includes PowerStore system initialization and deployment instructions along with practice opportunities to achieve a function production storage state. Day-to-day PowerStore administrative tasks for block, file, and VMware storage resources and services are also provided. The course includes PowerStore system hardware and software upgrades, and basic troubleshooting.

Private Classroom	40 Hours	ESSTGP00614
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[PowerStore Installation: Supplemental Guide for Customers](#)

This customer-focused instruction is limited to PowerStore single-node cluster system activation, including configuring switches for PowerStore T and PowerStore X models, running the Initial Configuration Wizard for PowerStore T and PowerStore X models, and applying a PowerStore license. Instructions for multi-node cluster deployments are not within the scope of this course. This course is a supplementary resource to enable customers who choose to install their PowerStore systems. This does not qualify for the Implementation Engineer (IE) training.

On Demand Class	02 Hours	ESSTGD02528
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[Specialist - Implementation Engineer PowerStore Solutions - Exam Preparation](#)

On Demand Class	26 Hours 41 Minutes	MR-7WN-PPOWERSOL
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[Tech Exchange - Flexible Scalability and Automation with PowerStore](#)

This session discusses the PowerStore's flexibility and how to scale-up, scale-out and scale-down architecture. Explore complex examples of how to create a new volume using GUI, CI and Ansible and learn to leverage ServiceNow CMDB in the provisioning process.

On Demand Class	01 Hours	ESMDXD03862
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[PowerVault](#)

[PowerVault ME4 Series Features – On Demand](#)

This 16 hours self-paced e-learning course introduces the participants to the Dell EMC PowerVault ME4 Series Storage System products. The training content includes how to identify, remove and install hardware components, how to deploy, configure and manage a ME4 solution with the management tools and how to troubleshoot a ME4 Series solution. This course also includes videos and simulations to enhance the learning experience.

On Demand Class	16 Hours	ES102STG00482
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[SC Series](#)

[Dell EMC SC Series Concepts](#)

This 90 minutes self paced e-learning training provide an introduction to the hardware, features and basic administration used on the Dell EMC Storage SC Series.

On Demand Class		DESNOLT-806-13797
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[Dell EMC SC Series Concepts](#)

This 90 minutes self paced e-learning training provide an introduction to the hardware, features and basic administration used on the Dell EMC Storage SC Series.

On Demand Class	01 Hours 30 Minutes	DESNOLT-828-6619
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[Dell EMC SC Series Concepts](#)

This 90 minutes self paced e-learning training provide an introduction to the hardware, features and basic administration used on the Dell EMC Storage SC Series.

On Demand Class	01 Hours 30 Minutes	DESNOLT-806-13799
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[Dell EMC SC Series Concepts](#)

This 90 minutes self paced e-learning training provide an introduction to the hardware, features and basic administration used on the Dell EMC Storage SC Series.

On Demand Class	01 Hours 30 Minutes	DESNOLT-828-6618
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[Dell EMC SC Series Concepts](#)

This 90 minutes self paced e-learning training provide an introduction to the hardware, features and basic administration used on the Dell EMC Storage SC Series.

On Demand Class	01 Hours 30 Minutes	DESNOLT-828-6617
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[Dell EMC SC Series Implementation and Administration](#)

This 40 hours instructor led course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install Dell EMC SC Series storage arrays and includes best practices information for the Dell EMC SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The Dell EMC SC Series Implementation and Administration course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

Classroom	40 Hours	DESILT-825-3835
Virtual Class	40 Hours	DESILT-825-3835

[Dell EMC SC Series Implementation and Administration](#)

This 40 hours instructor led course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install Dell EMC SC Series storage arrays and includes best practices information for the Dell EMC SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The Dell EMC SC Series Implementation and Administration course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

Virtual Class	40 Hours	DESILT-423-10015
Classroom	40 Hours	DESILT-423-10015

[Dell EMC SC Series Implementation and Administration](#)

This 40 hours instructor led course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install Dell EMC SC Series storage arrays and includes best practices information for the Dell EMC SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The Dell EMC SC Series Implementation and Administration course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

Classroom	40 Hours	DESILT-825-3842
Virtual Class	40 Hours	DESILT-825-3842

[Dell EMC SC Series Implementation and Administration](#)

This 40 hours instructor led course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install Dell EMC SC Series storage arrays and includes best practices information for the Dell EMC SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The Dell EMC SC Series Implementation and Administration course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

Classroom	40 Hours	DESILT-806-13751
Virtual Class	40 Hours	DESILT-806-13751

[Dell EMC SC Series Implementation and Administration](#)

This 40 hour self paced e-learning course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install SC Series storage arrays and includes best practices information for the SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The SC Series Implementation, Configuration and Management course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

On Demand Class	40 Hours	DESNOLT-825-3837
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[Dell EMC SC Series Implementation and Administration](#)

This 40 hour self paced e-learning course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install SC Series storage arrays and includes best practices information for the SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The SC Series Implementation, Configuration and Management course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

On Demand Class	40 Hours	DESNOLT-806-13754
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[Dell EMC SC Series Implementation and Administration](#)

This 40 hour self paced e-learning course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install SC Series storage arrays and includes best practices information for the SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The SC Series Implementation, Configuration and Management course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

On Demand Class	40 Hours	DESNOLT-806-13752
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[Dell EMC SC Series Implementation and Administration](#)

This 40 hour self paced e-learning course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install SC Series storage arrays and includes best practices information for the SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The SC Series Implementation, Configuration and Management course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

On Demand Class	40 Hours	DESNOLT-825-3845
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[Dell EMC SC Series Implementation and Administration](#)

This 40 hour self paced e-learning course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install SC Series storage arrays and includes best practices information for the SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The SC Series Implementation, Configuration and Management course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

On Demand Class	40 Hours	DESNOLT-825-3844
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[Dell EMC SC Series Implementation and Administration](#)

This 40 hours instructor led course includes a combination of administration, management, and advanced administration coursework. The course concentrates on utilizing Storage Manager to educate Administrators on how to perform key administrative tasks for Storage Center and effectively manage all tools associated with Storage Center operations like volume to server mapping, multipathing, failover, snapshots, replications and troubleshooting. This training also provides the knowledge to successfully install Dell EMC SC Series storage arrays and includes best practices information for the Dell EMC SC Series hardware deployment including Fibre Channel zoning, iSCSI and host attachment. The Dell EMC SC Series Implementation and Administration course is part of the recommended training path of the Dell Technologies Proven Professional SC Series Specialist Implementation Engineer.

Virtual Class	40 Hours	DESILT-825-3843
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Unity

[Dell EMC Unity Concepts and Features](#)

The course provides introductory technical knowledge of the Dell EMC Unity platform, the available models, its features and functions.

On Demand Class	03 Hours 30 Minutes	ES131STG00107
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[Dell EMC Unity Data Migration Features - On Demand](#)

This specialist-level e-learning course covers data migration features native to Dell EMC Unity systems. Topics include File Import for migrating file data from VNX VDMs configured with NFSv3 or with a single CIFS Server, and their associated file systems to Dell EMC Unity. The Block Import feature is also covered for migrating block resources from VNX LUNs and Snapshot Consistency Groups to Dell EMC Unity. SAN Copy Pull is also included for migrating block resources from Dell EMC storage systems, and third-party storage systems that support Fibre Channel or iSCSI connectivity to Dell EMC Unity. The course includes video demonstrations showing each feature being configured, and data migrated to the Dell EMC Unity system

On Demand Class	02 Hours	ES133STG00663
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[Dell EMC Unity Hardware Concepts and Features](#)

This course provides an overview and illustrates the Dell EMC Unity hardware architecture, platforms, and provides detailed insight to its component hardware.

On Demand Class	02 Hours	ES131STG00108
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[Dell EMC Unity Implementation and Administration](#)

This instructor-led course covers the knowledge necessary to understand the features and functionality and key use cases of a Unity storage system. Topics include system administration, storage provisioning, storage resource access, scalability and performance features, storage efficiency features, data protection features and data mobility features.

Virtual Class	32 Hours	ES122STG00111
Classroom	32 Hours	ES122STG00111

[Dell EMC Unity Implementation and Administration - On Demand](#)

This course covers the knowledge necessary to understand the features and functionality and key use cases of a Unity storage system. Topics include system administration, storage provisioning, storage resource access, scalability and performance features, storage efficiency features, data protection features and data mobility features.

On Demand Class	14 Hours	ES152STG00246
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[Dell EMC Unity Installation and Service](#)

This course is intended for professionals responsible for the installing and servicing a Dell EMC Unity XT storage system. The course covers the knowledge necessary to install, initialize, identify, and replace CRU's on a Dell EMC Unity XT storage system.

On Demand Class	02 Hours 20 Minutes	ES132STG00109
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[Dell EMC Unity NAS Server Advanced Network Features - On Demand](#)

This specialist-level e-learning course covers advanced network features supported by Dell EMC Unity NAS Servers. Topics include the high availability capabilities enabled by the LACP and FSN support. Additionally, the course explores the file server support for multi-tenant environments, and client-server network traffic control with advanced static routing and IP packet reflect.

On Demand Class	02 Hours 10 Minutes	ES183STG00661
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[Dell EMC Unity XT 5.2 Technical Differences](#)

This course presents updates for the Dell EMC Unity OE 5.2 release. This course contains new concepts, features, video content, and simulations.

On Demand Class	02 Hours	ESSTGD03832
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[Dell EMC Unity XT Hardware Concepts and Features](#)

This course provides an overview and illustrates the Dell EMC Unity XT hardware architecture, platforms, and provides detailed insight to its component hardware

On Demand Class	02 Hours	ES131STG01194
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[Tech Exchange - Unity Technical Differences](#)

This session explains the benefits and differences between Unity Models. It discusses key elements of the Unity XT system, including hardware components, asynchronous replication topologies, features and functionalities, and improvements to deduplication algorithm.

On Demand Class	45 Minutes	ESMDXD03848
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[Dell EMC Unity XT Basics On-Demand Training - Package](#)

This package of training provides an introductory technical knowledge of the Dell EMC Unity storage system, its features, available models and its functions.

This package includes the following courses:

- Dell EMC Unity Concepts and Features(On Demand Class, 03 Hours 30 Minutes)
- Dell EMC Unity Installation and Service(On Demand Class, 02 Hours 20 Minutes)
- Dell EMC Unity XT Hardware Concepts and Features(On Demand Class, 02 Hours)

[Dell EMC Unity XT Implementation and Administration ILT Training - Package](#)

This package of training covers the knowledge necessary to understand the features and functionality and key use cases of a Dell EMC Unity storage system. Topics include system administration, storage provisioning, storage resource access, scalability and performance features, storage efficiency features, data protection features and data mobility features. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

HCI VxRail

[VCF on VxRail](#)

[VCF 4.2 on VxRail Administration](#)

This course enables an administrator to manage a VMware Cloud Foundation (VCF) on VxRail solution. It covers reviewing the management interfaces, managing users, roles, and passwords, managing certificates and licenses, managing the workload domains, deploying NSX-T Edge cluster, performing lifecycle management, configuring multi-instance management, and exploring troubleshooting and support options. Hands on labs and simulated interactions are included in the course to provide a walk-through of the key steps involved in the administration of a VCF on VxRail solution.

Classroom	16 Hours	ESCPXS02410
Virtual Class	16 Hours	ESCPXS02410

VxRail

[VxRail 7.0.132 Administration](#)

This course presents the skills necessary to administer and manage a VxRail cluster. Key topics include management interfaces, managing cluster configurations, resource provisioning and expansion, monitoring, managing availability, and basic troubleshooting. Interactive simulations and video demonstrations are included in the course to provide a step-by step walkthrough of the key procedures to manage the cluster.

On Demand Class	16 Hours	ESCPXD03296
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[VxRail 7.0.XXX Feature - REST API](#)

Multi Domain

[Telecom BMO](#)

[Dell Technologies Bare Metal Orchestrator Administration 1.1 Lab](#)

This lab provides relevant practice for topics dealing with the day to day administration of Bare Metal Orchestrator. Specific labs cover monitoring and configuration of BMO resources.

On Demand Lab	02 Hours	ESCPXD04219
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This package includes the following courses:

- Dell EMC Unity Implementation and Administration - Classroom(Classroom, 32 Hours)
- Dell EMC Unity Implementation and Administration(Virtual Class, 32 Hours|Classroom, 32 Hours)
- Dell EMC Unity Concepts and Features(On Demand Class, 03 Hours 30 Minutes)
- Dell EMC Unity Installation and Service(On Demand Class, 02 Hours 20 Minutes)
- Dell EMC Unity XT Hardware Concepts and Features(On Demand Class, 02 Hours)

[Dell EMC Unity XT implementation and Administration On-Demand Training - Package](#)

This package of training covers the knowledge necessary to understand the features and functionality and key use cases of a Dell EMC Unity storage system. Topics include system administration, storage provisioning, storage resource access, scalability and performance features, storage efficiency features, data protection features and data mobility features. Remote self-guided hands-on labs provide practical experience applying concepts discussed throughout the course.

This package includes the following courses:

- Dell EMC Unity Implementation and Administration - On Demand(On Demand Class, 14 Hours)
- Dell EMC Unity Concepts and Features(On Demand Class, 03 Hours 30 Minutes)
- Dell EMC Unity Installation and Service(On Demand Class, 02 Hours 20 Minutes)
- Dell EMC Unity XT Hardware Concepts and Features(On Demand Class, 02 Hours)

This course introduces the VxRail 7.0.XXX API. It discusses VxRail API benefits, functionality, documentation, and the structure of the API requests. The course also includes interactive simulations demonstrating the use of the VxRail API to gather system information and to generate log bundles.(This course is being offered as On Demand Only)

On Demand Class	02 Hours	ES102CPX02009
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[VxRail Administration](#)

This course presents the skills necessary to administer and manage a VxRail cluster. Key topics include management interfaces, managing cluster configurations, resource provisioning and expansion, monitoring, managing availability, and basic troubleshooting. Hands-on labs, video demonstrations, and interactive simulations are included in the course to provide a step-by step walkthrough of the key procedures to manage the cluster.

Classroom	24 Hours	ES124CPX00078
Virtual Class	24 Hours	ES124CPX00078

[VxRail Appliance 4.7.XXX Administration - On Demand Course](#)

This course presents the knowledge necessary to administer and manage a VxRail Cluster. Key topics include management interfaces, managing cluster configurations, resource provisioning and expansion, monitoring, managing availability, and basic troubleshooting. Video Demonstrations included in the course provide a step-by step walk-through of the key procedures to manage the cluster.

On Demand Class	08 Hours	ES133CPX00559
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[Dell Technologies Bare Metal Orchestrator Concepts](#)

At the completion of this course, students will be able to describe hardware, software and environmental requirements of the Bare Metal Orchestrator solution. The course will provide insight to the benefits and capabilities of BMO as well as deployment configurations, and tools used to configure and manage the solution.

On Demand Class	01 Hours 30 Minutes	ESCPXD03704
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Networking

Campus

[Dell EMC PowerSwitch Campus Implementation and Administration](#)

This course provides the student with an understanding of the Dell EMC Networking Operating System 6 (DNOS 6) in the following areas:

Classroom	40 Hours	ES102NET00233
Virtual Class	40 Hours	ES102NET00233

Data Center

[Dell EMC PowerSwitch Data Center Implementation and Administration](#)

The Dell EMC PowerSwitch Data Center Implementation and Administration course is part of the certification training path leading to Dell EMC Certified Specialist, Networking. This course is On Demand with hands-on activities.

On Demand Class	40 Hours	ESNETD02182
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Networking

[Dell EMC PowerSwitch Data Center Implementation and Administration](#)

The Dell EMC Networking – Data Center Configuration and Administration course is part of the certification training path leading to Dell EMC Certified Specialist, Networking. This course assists you to successfully configure, manage, and troubleshoot Dell EMC Data Center Networking products using best-practice information. This course is delivered through instructor-led training and hands-on activities.

Classroom	40 Hours	ES102NET00232
Virtual Class	40 Hours	ES102NET00232

SmartFabric

[PowerSwitch SmartFabric OS10 BGP EVPN Concepts](#)

This on-demand course provides an overview of BGP EVPN, a data center control plane that address multi-tenancy, scalability and workload mobility requirements for modern data centers. It provides an understanding of the components that comprise a BGP EVPN VXLAN solution. Also provided is an overview of how the components interact to forward network traffic from one virtual entity of a tenant, through the data center, to a destination entity for that customer system.

Redemption

Voucher

[Dell Technologies Proven Professional VUE Exam Voucher](#)

Exam vouchers may ONLY be used as payment for any Dell Technologies Proven Professional exam delivered by Pearson VUE, the sole testing provider of Dell Technologies Proven Professional exams. For a complete list of exams this voucher can be used for go to: www.pearsonvue.com/dell/exams. After purchase, your vouchers will be emailed to you within 3 business days. Important: Vouchers are active for 365 days after the date of the order and must be used during this time period. These vouchers may not be resold or redeemed for cash, credit, or refunded.

Security and Systems Management

OpenManage

[OpenManage Enterprise CloudIQ Features Implementation Administration](#)

The CloudIQ plugin for OpenManage Enterprise enables the monitoring and managing of OpenManage Enterprise devices by the CloudIQ web service. This course focuses on the functions and features of the CloudIQ plugin for OpenManage Enterprise.

On Demand Class	30 Minutes	ESSMMD03613
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[OpenManage Enterprise Fundamentals Features Implementation Administration](#)

On Demand Class	45 Minutes	ESNETD02404
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[PowerSwitch SmartFabric OS10 BGP EVPN Implementation and Lab](#)

This course enables students to implement VXLAN EVPN on a Dell EMC PowerSwitch data center network running SmartFabric OS10. It focuses on implementing BGP and BGP unnumbered, VXLAN and EVPN with VXLAN. This course is on demand and includes hands-on labs.

On Demand Class	03 Hours	ESNETD02405
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[PowerSwitch SmartFabric OS10 Private Virtual LAN Concepts](#)

This module will explain what PVLAN is and the difference between PVLAN and VLAN. Also covered will be the architecture and components of PVLAN along with the uses and limitations.

On Demand Class	30 Minutes	ESNETD02623
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[PowerSwitch SmartFabric OS10 Private Virtual LAN Implementation](#)

This on-demand course provides the necessary steps to Implement Private VLAN.

On Demand Class	01 Hours	ESNETD02688
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[PowerSwitch SmartFabric OS10 REST API Implementation and Lab](#)

The PowerSwitch SmartFabric OS10 REST API Implementation on-demand course provides an introduction and basic understanding of Software Defined Networking via REST API, SmartFabric OS10 REST API, and SmartFabric Services. The course is presented using a range of mediums, from animations to video demonstrations, and is associated with a lab exercise. It prepares the learner to configure switches, translate OS10 CLI commands into REST API requests, and run them using Postman.

On Demand Class	03 Hours	ESNETD02718
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Exam Voucher		MR-1EV-VUEEMCPROV
On Demand Class		MR-1EV-VUEEMCPROV

The OpenManage Enterprise course is a baseline course that provides a learner with a good understanding of the functions and features of OpenManage Enterprise. On demand eLearning and video demonstrations cover the following topics for students: Installation/Configuration, navigating/using the web interface, describe and use the Discovery and Inventory process, manage devices, and perform tasks using OpenManage Enterprise. Students learn about profiles and configuration templates. The course covers the integration of OME adaptors with SupportAssist Enterprise and Secure Connect Gateway. Checklists have been incorporated to provide students with a “what to look for” when issues arise.

On Demand Class	05 Hours	ESSMMD02638
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[OpenManage Enterprise Fundamentals Features Implementation Administration](#)

The OpenManage Enterprise course is a baseline course that provides a learner with a good understanding of the functions and features of OpenManage Enterprise. Lecture and lab activities cover the following topics for students: Installation/Configuration, navigating/using the web interface, describe and use the Discovery and Inventory process, manage devices, and perform tasks using OpenManage Enterprise. Students learn about and use profiles and configuration templates. The course covers the integration of OME adaptors with SupportAssist Enterprise and Secure Connect Gateway. Checklists have been incorporated to provide students with a "what to look for" when issues arise.

Classroom	16 Hours	ESSSMS03596
Virtual Class	16 Hours	ESSSMS03596

[OpenManage Enterprise Power Manager Features Implementation Administration](#)

The Power Manager plugin for OpenManage Enterprise enables the monitoring of environmental data, including power and thermal data from Dell EMC devices. Power Manager contains physical hardware resource management and policy management for power and thermal events. This course focuses on the functions and features of the Power Manager plugin for OpenManage Enterprise.

Server

Modular

[Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration](#)

This Dell EMC PowerEdge MX7000 Installation, Implementation and Administration course assists the learner to successfully configure, manage and troubleshoot Dell EMC PowerEdge MX7000 systems providing best practice information. This three day training focuses on the MX7000 chassis as well as installed compute and storage sleds.

Classroom	24 Hours	ES181SVR00151
Virtual Class	24 Hours	ES181SVR00151

[Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration](#)

This on demand Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration training assists the learner to successfully configure, manage and troubleshoot Dell EMC PowerEdge MX systems providing best practice information. This training focuses on the MX7000 chassis as well as installed compute and storage sleds. This course is part of the recommended training path leading to the Dell Technologies Specialist - Implementation Engineer, PowerEdge MX Modular certification. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

Classroom		ES182SVR00518
On Demand Class	12 Hours	ES182SVR00518

PowerEdge

[Dell EMC PowerEdge Installation Administration and Troubleshooting](#)

Third Party

000 Third Party Untagged

[DP-100 Designing and Implementing a Data Science Solution on Azure](#)

Learn how to operate machine learning solutions at cloud scale using Azure Machine Learning. This course teaches you to leverage your existing knowledge of Python and machine learning to manage data ingestion and preparation, model training and deployment, and machine learning solution monitoring in Microsoft Azure.

Virtual Class	24 Hours	ESTPYS03278
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On Demand Class	02 Hours	ESSSMD03610
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[OpenManage Enterprise Services Features Implementation Administration](#)

The OpenManage Enterprise Services plugin provides alert monitoring and automated log gathering, support case creation and parts dispatch for Dell EMC devices managed by OpenManage Enterprise. This course focuses on the functions and features of the Services plugin for OpenManage Enterprise.

On Demand Class	01 Hours	ESSSMD03611
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[OpenManage Enterprise Update Manager Features Implementation Administration](#)

The Update Manager plugin enables the creation and management of custom update repositories by OpenManage Enterprise. This course focuses on the functions and features of the Update Manager plugin for OpenManage Enterprise.

On Demand Class	01 Hours	ESSSMD03612
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This on demand course provides an overview of the latest generations of Dell EMC PowerEdge rack and tower servers. It is recommended to successfully complete Dell EMC PowerEdge Server Concepts prior to taking this course. This course will assist the participant to identify how to successfully install, manage and troubleshoot Dell EMC PowerEdge servers, providing best practice information consisting of eLearning presentations and interactive demonstrations. This course is part of the recommended training path leading to the Dell Technologies Specialist – Implementation Engineer, PowerEdge certification. This course does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

On Demand Class	12 Hours	ES102SVR01827
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[Dell EMC PowerEdge Installation Administration and Troubleshooting](#)

This three-day instructor-led course provides an overview of the latest generations of Dell EMC PowerEdge rack and tower servers. It is recommended to successfully complete Dell EMC PowerEdge Server Concepts prior to taking this course. This course will assist the participant to identify how to successfully install, manage and troubleshoot Dell EMC PowerEdge servers, providing best practice information consisting of instructor-led training and hands-on activities. This course is part of the recommended training path leading to the Dell Technologies Specialist Implementation Engineer, PowerEdge certification. (Certification exam not included.) (DES-4122)

Virtual Class	24 Hours	ESSVRS02244
Classroom	24 Hours	ESSVRS02244

Amazon AWS

[Advanced Architecting on AWS](#)

In this three day course, you will be building on concepts introduced in Architecting on AWS, Advanced Architecting on AWS is intended for individuals who are experienced with designing scalable and elastic applications on the AWS platform. In this course, you will cover how to build complex solutions that incorporate data services, governance, and security on AWS. You will get an introduction to specialized AWS services, including AWS Direct Connect and AWS Storage Gateway to support hybrid architecture. You will also cover designing best practices for building scalable, elastic, secure, and highly available applications on AWS.

Classroom		DESILT-822-4965
Virtual Class	24 Hours	DESILT-822-4965

[Architecting on AWS](#)

In this three day authorized Amazon Web Services (AWS) course, you will learn all the essential skills to architect your IT solutions on AWS. Gain in-depth knowledge of the AWS platform and how to leverage AWS services for your specific cloud-based application. This 3-day, hands-on training provides current AWS cloud best practices and AWS architecture principles covering the entire process of designing IT infrastructure from beginning to end. Since AWS introduces an average of 200 new features and services annually, it is critical that you study the most recent innovations. To reinforce this material, you will also explore case studies with a variety of AWS infrastructure designs and strategies. After the course, you will be fully equipped to build and scale a more efficient and reliable IT solution on the AWS cloud environment.

Classroom		DESILT-822-4964
Virtual Class	24 Hours	DESILT-822-4964

[Big Data on AWS](#)

In this three day course, you will learn about cloud-based big data solutions such as Amazon Elastic MapReduce (EMR), Amazon Redshift, Amazon Kinesis, and the rest of the AWS big data platform. You will learn how to use Amazon EMR to process data using the broad ecosystem of Apache Hadoop tools like Hive and Hue. Additionally, you will learn how to create big data environments, work with Amazon DynamoDB, Amazon Redshift, and Amazon Kinesis, and leverage best practices to design big data environments for security and cost-effectiveness.

Classroom		DESILT-822-4968
Virtual Class		DESILT-822-4968

[Developing on AWS](#)

In this three day course, you will learn how to use the AWS SDK for developing secure and scalable cloud applications. The course provides in-depth knowledge about how to interact with AWS using code and covers key concepts, best practices, and troubleshooting tips.

Classroom		DESILT-822-4966
Virtual Class		DESILT-822-4966

[System Operations on AWS](#)

In the three day System Operations on AWS course, you will learn how to configure, deploy, and manage operations on the AWS platform by building upon your existing knowledge of systems administration, cloud computing, and networking protocols such as TCP/IP or HTTP. With a focus on common industry techniques and best practices used by AWS system administrators, this training helps you utilize AWS tools and capabilities throughout the network management process. Gain important knowledge from the live labs and practice your new AWS operation skills with hands-on exercises. By the end of the 3-day course, you will be able to launch scalable, automated, and repeatable deployments of AWS systems to create a more efficient network. In addition, this training helps prepare you for the AWS Certified SysOps Administrator Associate-level exam, alongside real-world experience, studying and more.

Classroom	24 Hours	DESILT-822-4967
Virtual Class	24 Hours	DESILT-822-4967

[CompTIA](#)

[CompTIA A+ Certification](#)

This online collection provides 12 months access to CompTIA accredited self-paced eLearning to help prepare for the CompTIA A+ 220-901 and CompTIA A+ 220- 902 exams, and also includes on-demand resources for support on the job. This award-winning learning offers narrated lessons with engaging animation and video, hands-on practice, live on-demand mentoring by certified experts, and simulated exam with answers. Take end-to-end for structured learning path, or use the flexible navigation to pinpoint and jump to specific topics and videos. (Certification exams not included)

On Demand Class		DESNOLT-975-1827
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[CompTIA Advanced Security Practitioner \(CASP\)](#)

This online collection provides 12 months access to CompTIA accredited self-paced eLearning to help prepare for the CompTIA Advanced Security Practitioner (CASP) CAS-002 exam, and also includes on-demand resources for support on the job. (Certification exam not included)

On Demand Class		DESNOLT-998-3153
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[CompTIA Cloud plus](#)

The CompTIA Cloud+ certification is a vendor-neutral certification validates the knowledge and best practices required of IT practitioners working in cloud computing environments, who must understand and deliver cloud infrastructure to securely implement and maintain cloud technologies. This program explores learning objectives to prepare students for the CompTIA Cloud+ CV0-001 Certification exam.

Classroom		DESNOLT-998-3152
On Demand Class		DESNOLT-998-3152

[CompTIA Linux+ Certification](#)

A CompTIA Linux+ certification validates technical competency and indicates a broad awareness of Linux operating systems. Those holding CompTIA Linux+ certification demonstrate critical knowledge of installation, operation, administration and troubleshooting Linux systems.

On Demand Class		DESNOLT-975-1828
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[CompTIA Network+ Certification](#)

This online course helps prepare for the CompTIA Network+ certification exam. CompTIA certifications aim to validate candidate skills across vendor-neutral range of IT technologies. (Certification exam not included)

On Demand Class		DESNOLT-975-1829
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[CompTIA Security+ Certification](#)

CompTIA created their Security+ Certification as a vendor neutral credential that is an internationally recognized way of earning validation of foundation-level security skills and knowledge. (ENGLISH LANGUAGE ONLY)

On Demand Class		ESMDXDCTIAS
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[CompTIA Server+ Certification](#)

This online course helps prepare for the CompTIA Server+ certification exam. CompTIA Server+ certification establishes the test candidate's ability to install, configure, diagnose and troubleshoot server hardware and network operating systems. (Certification exam not included)

Classroom		DESNOLT-975-1831
On Demand Class		DESNOLT-975-1831

Google Cloud

[Architecting with Google Cloud Platform: Design and Process](#)

This two-day instructor-led class equips you to build highly reliable and efficient solutions on Google Cloud Platform. It is a continuation of the Architecting with Google Cloud Platform: Infrastructure course and assumes hands-on experience with the technologies covered in that course. Through a combination of presentations, demos, and hands-on labs, you will learn to design GCP deployments that are highly reliable and secure as well as how to operate GCP deployments in a highly available and cost-effective manner.

Classroom		DESILT-822-4971
Virtual Class	16 Hours	DESILT-822-4971

[Data Engineering on Google Cloud Platform](#)

This four-day instructor-led class provides you with a hands-on introduction to designing and building data processing systems on Google Cloud Platform. Through a combination of presentations, demos, and hands-on labs, you will learn how to design data processing systems, build end-to-end data pipelines, analyze data and carry out machine learning. The course covers structured, unstructured, and streaming data.

Classroom		DESILT-822-4973
Virtual Class	32 Hours	DESILT-822-4973

[Google Cloud Fundamentals: Big Data and Machine Learning](#)

This one-day instructor-led course introduces participants to the big data capabilities of Google Cloud Platform. Through a combination of presentations, demos, and hands-on labs, you will get an overview of the Google Cloud platform and a detailed view of the data processing and machine learning capabilities. This course showcases the ease, flexibility, and power of big data solutions on Google Cloud Platform.

Classroom	08 Hours	DESILT-822-4970
Virtual Class	08 Hours	DESILT-822-4970

[Google Cloud Fundamentals: Core Infrastructure](#)

This one-day instructor-led class provides an overview of Google Cloud Platform products and services. Through a combination of presentations, demos, and hands-on labs, you will learn the value of Google Cloud Platform and how to incorporate cloud-based solutions into business strategies.

Classroom		DESILT-822-4969
Virtual Class		DESILT-822-4969

Microsoft Azure

[AZ-104T00 Microsoft Azure Administrator](#)

This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

Virtual Class	32 Hours	ESTPYD03269
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[AZ-204T00 Developing Solutions For Microsoft Azure](#)

Students will learn how to implement Azure compute solutions, create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, implement authentication and authorization, and secure their solutions by using KeyVault and Managed Identities. Students will also learn how to connect to and consume Azure services and third party services, and include event- and message-based models in their solutions.

Virtual Class	40 Hours	ESTPYS03276
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[AZ-303T00 Microsoft Azure Architect Technologies](#)

Lessons include virtualization, automation, networking, storage, identity, security, data platform, and application infrastructure. This course outlines how decisions in each of these areas affects an overall solution.

Virtual Class	40 Hours	ESTPYS03270
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[AZ-304T00 Microsoft Azure Architect Design](#)

This course teaches Solutions Architects how to translate business requirements into secure, scalable, and reliable designs recommendations. Lessons include monitoring, automation, data storage, and infrastructure. This course outlines how decisions in each of these areas influences an overall design solution.

Virtual Class	32 Hours	ESTPYS03271
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Microsoft Office 365

[MS-100T00 Microsoft 365 Identity and Services](#)

This course covers three central elements of Microsoft 365 enterprise administration – Microsoft 365 tenant and service management, Office 365 management, and Microsoft 365 identity management.

Virtual Class	40 Hours	ESTPYS03279
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[MS-101T00 Microsoft 365 Mobility and Security](#)

This course covers three central elements of Microsoft 365 enterprise administration – Microsoft 365 security management, Microsoft 365 compliance management, and Microsoft 365 device management.

Virtual Class	40 Hours	ESTPYS03280
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[MS-203T00 Microsoft 365 Messaging](#)

This course examines the key elements of Microsoft 365 messaging administration, including message transport and mail flow, messaging security, hygiene, and compliance, messaging infrastructure, and hybrid messaging.

Virtual Class	40 Hours	ESTPYS03274
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Microsoft Windows Client

[Microsoft Windows 10 and Office 365 Subscription](#)

This online training program is a comprehensive, low-cost, easy access solution that helps users effectively adopt Microsoft products and realize the greatest return on their technology investments.

On Demand Class		ESTPYD03351
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Microsoft Windows Server

[WS-011T00 Windows Server 2019 Administration](#)

This course is designed for professionals who will be responsible for managing identity, networking, storage and compute by using Windows Server 2019, and who need to understand the scenarios, requirements, and options that are available and applicable to Windows Server 2019. The course teaches IT professionals the fundamental administration skills required to deploy and support Windows Server 2019 in most organizations.

Virtual Class	40 Hours	ESTPYS03277
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ServiceNow Product Training

[Scripting in ServiceNow Fundamentals](#)

Attend Scripting in ServiceNow Fundamentals to learn how to use the ServiceNow JavaScript API. Take advantage of the extensibility of ServiceNow by adding new functionality or modifying the baseline behavior of an instance. This class begins with client-side scripting and transitions to server-side scripting. Attendees write, test and debug scripts using real-world, relevant lab exercises.

Virtual Class	24 Hours	ESTPYS03323
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[ServiceNow Fundamentals](#)

A combination of lecture content and labs in the ServiceNow Fundamentals course will summarize fundamental platform features by: Describing the ServiceNow user interface, Providing a summary of the database schema, Demonstrating uses for commonly accessed applications, and Introducing advanced functionality, such as scripting and application development

Virtual Class	24 Hours	ESTPYS03320
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VMware

[Dell Technologies Unified Workspace 2020](#)

The Dell Technologies Unified Workspace 2020 is co-skilled badge program is aimed at providing IT technical professionals an opportunity to demonstrate proficiency on Dell Technologies Unified Workspace, including technical knowledge of VMware Workspace ONE, Dell Factory Provisioning of VMware Workspace ONE, Dell Client Command Suite, Dell Power Manager, Intel vPro out-of-band management, warranty management, intelligent support with SupportAssist Insights and TechDirect, and the integration points of these capabilities. It also enables badge earners to demonstrate proficiency in Unified Workspace approach to security, including technical details on features such as SafeBIOS (off-host BIOS verification), SafeID (hardware-based trusted device security), and SafeData (AI-enabled TrustedData technology), as well as threat management powered by telemetry, utilizing Artificial Intelligence and Machine Learning for efficient and effective responses to cyber incidents. The program will add to skill sets acquired from the VMware Certified

On Demand Class		DESNOLT-833-6130
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[Dell Technologies Unified Workspace 2020](#)

The Dell Technologies Unified Workspace 2020 is co-skilled badge program is aimed at providing IT technical professionals an opportunity to demonstrate proficiency on Dell Technologies Unified Workspace, including technical knowledge of VMware Workspace ONE, Dell Factory Provisioning of VMware Workspace ONE, Dell Client Command Suite, Dell Power Manager, Intel vPro out-of-band management, warranty management, intelligent support with SupportAssist Insights and TechDirect, and the integration points of these capabilities. It also enables badge earners to demonstrate proficiency in Unified Workspace approach to security, including technical details on features such as SafeBIOS (off-host BIOS verification), SafeID (hardware-based trusted device security), and SafeData (AI-enabled TrustedData technology), as well as threat management powered by telemetry, utilizing Artificial Intelligence and Machine Learning for efficient and effective responses to cyber incidents. The program will add to skill sets acquired from the VMware Certified

On Demand Class	06 Hours 30 Minutes	DESNOLT-833-6132
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[Dell Technologies Unified Workspace 2020](#)

The Dell Technologies Unified Workspace 2020 is co-skilled badge program is aimed at providing IT technical professionals an opportunity to demonstrate proficiency on Dell Technologies Unified Workspace, including technical knowledge of VMware Workspace ONE, Dell Factory Provisioning of VMware Workspace ONE, Dell Client Command Suite, Dell Power Manager, Intel vPro out-of-band management, warranty management, intelligent support with SupportAssist Insights and TechDirect, and the integration points of these capabilities. It also enables badge earners to demonstrate proficiency in Unified Workspace approach to security, including technical details on features such as SafeBIOS (off-host BIOS verification), SafeID (hardware-based trusted device security), and SafeData (AI-enabled TrustedData technology), as well as threat management powered by telemetry, utilizing Artificial Intelligence and Machine Learning for efficient and effective responses to cyber incidents. The program will add to skill sets acquired from the VMware Certified

On Demand Class	06 Hours 30 Minutes	DESNOLT-833-6131
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[Dell Technologies Unified Workspace 2020](#)

The Dell Technologies Unified Workspace 2020 is co-skilled badge program is aimed at providing IT technical professionals an opportunity to demonstrate proficiency on Dell Technologies Unified Workspace, including technical knowledge of VMware Workspace ONE, Dell Factory Provisioning of VMware Workspace ONE, Dell Client Command Suite, Dell Power Manager, Intel vPro out-of-band management, warranty management, intelligent support with SupportAssist Insights and TechDirect, and the integration points of these capabilities. It also enables badge earners to demonstrate proficiency in Unified Workspace approach to security, including technical details on features such as SafeBIOS (off-host BIOS verification), SafeID (hardware-based trusted device security), and SafeData (AI-enabled TrustedData technology), as well as threat management powered by telemetry, utilizing Artificial Intelligence and Machine Learning for efficient and effective responses to cyber incidents. The program will add to skill sets acquired from the VMware Certified

On Demand Class	06 Hours 30 Minutes	DESNOLT-806-13805
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[Dell Technologies Unified Workspace 2020](#)

The Dell Technologies Unified Workspace 2020 is co-skilled badge program is aimed at providing IT technical professionals an opportunity to demonstrate proficiency on Dell Technologies Unified Workspace, including technical knowledge of VMware Workspace ONE, Dell Factory Provisioning of VMware Workspace ONE, Dell Client Command Suite, Dell Power Manager, Intel vPro out-of-band management, warranty management, intelligent support with SupportAssist Insights and TechDirect, and the integration points of these capabilities. It also enables badge earners to demonstrate proficiency in Unified Workspace approach to security, including technical details on features such as SafeBIOS (off-host BIOS verification), SafeID (hardware-based trusted device security), and SafeData (AI-enabled TrustedData technology), as well as threat management powered by telemetry, utilizing Artificial Intelligence and Machine Learning for efficient and effective responses to cyber incidents. The program will add to skill sets acquired from the VMware Certified

On Demand Class	06 Hours 30 Minutes	DESNOLT-806-13804
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[Troubleshooting VMware vRealize Operations \[V8.x\]](#)

This two-day course gives VMware vRealize® Operations™ administrators the skills to perform basic troubleshooting tasks. The course also gives administrators the skills to ensure that their vRealize Operations instance meets its use-case objectives of continuous performance optimization, app-aware intelligent remediation, and integrated compliance. The hands-on training provides an overview of the tools and processes available to ensure a vRealize Operations deployment is running in a healthy state.

Classroom	16 Hours	MR-1CN-VMTVRO8
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[Troubleshooting VMware vRealize Operations \[V8.x\] - Virtual Class](#)

This two-day course gives VMware vRealize® Operations™ administrators the skills to perform basic troubleshooting tasks. The course also gives administrators the skills to ensure that their vRealize Operations instance meets its use-case objectives of continuous performance optimization, app-aware intelligent remediation, and integrated compliance. The hands-on training provides an overview of the tools and processes available to ensure a vRealize Operations deployment is running in a healthy state.

Virtual Class	16 Hours	MR-1LN- VMTVRO8
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[VMware App Volumes and Dynamic Environment Manager](#)

This three-day course builds your skills in application management using VMware App Volumes™ and VMware Dynamic Environment Manager™. You will learn how to use App Volumes to deliver applications and data to desktops and users in seconds and at scale. You will gain skills in managing application lifecycles from installation to update and replacement. You will also learn how to use Dynamic Environment Manager to provide personalization and dynamic policy configuration across virtual, physical, and cloud-based environments to simplify end-user profile management.

Classroom	24 Hours	MR-1CN- VMAVDEM
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[VMware App Volumes and Dynamic Environment Manager - Virtual Class](#)

This three-day course builds your skills in application management using VMware App Volumes™ and VMware Dynamic Environment Manager™. You will learn how to use App Volumes to deliver applications and data to desktops and users in seconds and at scale. You will gain skills in managing application lifecycles from installation to update and replacement. You will also learn how to use Dynamic Environment Manager to provide personalization and dynamic policy configuration across virtual, physical, and cloud-based environments to simplify end-user profile management.

Virtual Class	24 Hours	MR-1LN- VMAVDEM
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[VMware Carbon Black App Control Administrator](#)

This one-day course teaches you how to use the VMware Carbon Black® App Control™ product and leverage the capabilities to configure and maintain the system according to their organization's security posture and organizational policies. This course provides an in-depth, technical understanding of the Carbon Black App Control product through comprehensive coursework and hands-on scenario-based labs.

Classroom	08 Hours	MR-1CN- VMVCBACA
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[VMware Carbon Black App Control Administrator - Virtual Class](#)

This one-day course teaches you how to use the VMware Carbon Black® App Control™ product and leverage the capabilities to configure and maintain the system according to their organization's security posture and organizational policies. This course provides an in-depth, technical understanding of the Carbon Black App Control product through comprehensive coursework and hands-on scenario-based labs.

Virtual Class	08 Hours	MR-1LN- VMVCBACA
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[VMware Carbon Black App Control Advanced Administrator](#)

This one-day course teaches you how to configure and scope the rules within VMware Carbon Black® App Control™ product to maintain the system according to your organization's security posture and organizational policies. Additionally, this course covers troubleshooting both the server and the agent for Carbon Black App Control and how to identify issues that impact normal operations. This course provides an in-depth, technical understanding of the Carbon Black App Control product through comprehensive coursework and hands-on scenario-based labs.

Classroom	08 Hours	MR-1CN- VMVCBACAA
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[VMware Carbon Black App Control Advanced Administrator - Virtual Class](#)

This one-day course teaches you how to configure and scope the rules within VMware Carbon Black® App Control™ product to maintain the system according to your organization's security posture and organizational policies. Additionally, this course covers troubleshooting both the server and the agent for Carbon Black App Control and how to identify issues that impact normal operations. This course provides an in-depth, technical understanding of the Carbon Black App Control product through comprehensive coursework and hands-on scenario-based labs.

Virtual Class	08 Hours	MR-1LN- VMVCBACAA
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[VMware Carbon Black Cloud Audit and Remediation - Virtual](#)

This one-day course teaches you how to use the VMware Carbon Black® Cloud Audit and Remediation™ product to build queries for IT hygiene, incident response, and vulnerability assessment to support your organization's security posture and policies. This course provides an in-depth, technical understanding of the product through comprehensive coursework and hands-on scenario-based labs.

Virtual Class	08 Hours	MR-1LN- VMVCBCAR
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[VMware Carbon Black Cloud Endpoint Standard - Virtual](#)

This one-day course teaches you how to use the VMware Carbon Black Cloud Endpoint™ Standard product and leverage the capabilities to configure and maintain the system according to your organization's security posture and policies. This course provides an in-depth, technical understanding of the product through comprehensive coursework and hands-on scenario-based labs.

Virtual Class	08 Hours	MR-1LN- VMVCBCES
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[VMware Carbon Black Cloud Enterprise EDR - Virtual](#)

This one-day course teaches you how to use the VMware Carbon Black® Cloud Enterprise EDR™ product and leverage its capabilities to configure and maintain the system according to your organization's security posture and policies. This course provides an in-depth, technical understanding of the product through comprehensive coursework and hands-on scenario-based labs.

Virtual Class	08 Hours	MR-1LN- VMVCBCEEDR
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[VMware Carbon Black EDR Administrator](#)

This one-day course teaches you how to use the VMware Carbon Black® EDR™ product and leverage the capabilities to configure and maintain the system according to your organization's security posture and policies. This course provides an in-depth, technical understanding of the Carbon Black EDR product through comprehensive coursework and hands-on scenario-based labs.

Classroom	08 Hours	MR-1CN- VMVCBEDRA
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[VMware Carbon Black EDR Administrator - Virtual Class](#)

This one-day course teaches you how to use the VMware Carbon Black® EDR™ product and leverage the capabilities to configure and maintain the system according to your organization's security posture and policies. This course provides an in-depth, technical understanding of the Carbon Black EDR product through comprehensive coursework and hands-on scenario-based labs.

Virtual Class	08 Hours	MR-1LN- VMVCBEDRA
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[VMware Carbon Black EDR Advanced Administrator](#)

This one-day course teaches you how to use the advanced features of the VMware Carbon Black® EDR™ product. This usage includes gaining access to the Linux server for management and troubleshooting in addition to configuring integrations and using the API. This course provides an in-depth, technical understanding of the Carbon Black EDR product through comprehensive coursework and hands-on scenario-based labs. This class focuses exclusively on advanced technical topics related to the technical back-end configuration and maintenance.

Classroom	08 Hours	MR-1CN-VMVCBEDRAA
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[VMware Carbon Black EDR Advanced Administrator - Virtual Class](#)

This one-day course teaches you how to use the advanced features of the VMware Carbon Black® EDR™ product. This usage includes gaining access to the Linux server for management and troubleshooting in addition to configuring integrations and using the API. This course provides an in-depth, technical understanding of the Carbon Black EDR product through comprehensive coursework and hands-on scenario-based labs. This class focuses exclusively on advanced technical topics related to the technical back-end configuration and maintenance.

Virtual Class	08 Hours	MR-1LN-VMVCBEDRAA
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[VMware Carbon Black EDR Advanced Analyst](#)

This one-day course teaches you how to use the VMware Carbon Black® EDR™ product during incident response. Using the SANS PICERL framework, you will configure the server and perform an investigation on a possible incident. This course provides guidance on using Carbon Black EDR capabilities throughout an incident with an in-depth, hands-on, scenario-based lab.

Classroom	08 Hours	MR-1CN-VMVCBEDRAAN
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[VMware Carbon Black EDR Advanced Analyst - Virtual Class](#)

This one-day course teaches you how to use the VMware Carbon Black® EDR™ product during incident response. Using the SANS PICERL framework, you will configure the server and perform an investigation on a possible incident. This course provides guidance on using Carbon Black EDR capabilities throughout an incident with an in-depth, hands-on, scenario-based lab.

Virtual Class	08 Hours	MR-1LN-VMVCBEDRAAN
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[VMware Carbon Black Portfolio: Configure and Manage - Virtual Class](#)

This 5-day course teaches you how to install, configure, and manage the VMware Carbon Black® Portfolio suite of products, which include: VMware Carbon Black® App Control™ Administrator, VMware Carbon Black® EDR™ Administrator, VMware Carbon Black Cloud Endpoint™ Standard, VMware Carbon Black® Cloud Audit and Remediation, VMware Carbon Black® Cloud Enterprise EDR™. You learn how to use the capabilities of the products according to the organization's security posture and organizational policies. This course provides an in-depth, technical understanding of the Carbon Black Portfolio through comprehensive coursework, hands-on labs, and scenario-based exercises.

Virtual Class	40 Hours	MR-1LN-VMCBCM
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[VMware Cloud Director: Advanced Networking with NSX-T Data Center \[V10.2\]](#)

In this five-day course, you focus on deploying, configuring, integrating, designing, and managing VMware Cloud Director™ 10.x network objects with VMware NSX-T™ Data Center. This course also focuses on designing, integrating, configuring, and managing VMware Cloud Director™ 10.x with VMware NSX® Advanced Load Balancer™. This course also focuses on the VMware Cloud Director Migration tool, using which the system administrator can perform the actual migration by migrating the workload and networks of the organization VDC supported by VMware NSX® Data Center for vSphere® to the organization VDC supported by NSX-T Data Center in the same organization. This course also showcases how to monitor VMware Cloud Director networking objects using VMware vRealize® Operations™ and VMware vRealize® Operations Tenant App.

Classroom	40 Hours	MR-1CN-VMCDANNSXT
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[VMware Cloud Director: Advanced Networking with NSX-T Data Center \[V10.2\] - Virtual Class](#)

In this five-day course, you focus on deploying, configuring, integrating, designing, and managing VMware Cloud Director™ 10.x network objects with VMware NSX-T™ Data Center. This course also focuses on designing, integrating, configuring, and managing VMware Cloud Director™ 10.x with VMware NSX® Advanced Load Balancer™. This course also focuses on the VMware Cloud Director Migration tool, using which the system administrator can perform the actual migration by migrating the workload and networks of the organization VDC supported by VMware NSX® Data Center for vSphere® to the organization VDC supported by NSX-T Data Center in the same organization. This course also showcases how to monitor VMware Cloud Director networking objects using VMware vRealize® Operations™ and VMware vRealize® Operations Tenant App.

Virtual Class	40 Hours	MR-1LN-VMCDANNSXT
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[VMware Cloud Director: Advanced Workshop \[V10.2\]](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to design and utilize a cloud solution based on VMware Cloud Director™. Besides learning about an advanced cloud architecture, you learn about the integration of VMware Cloud Director with the products VMware Cloud Director Availability™, VMware vRealize® Orchestrator™, VMware vRealize® Operations™ (including the Tenant App), VMware NSX-T® Data Center and VMware NSX® Advanced Load Balancer™ (Avi Networks). This course covers the migration from VMware NSX® for vSphere® (NSX-V) to VMware NSX-T® Data Center in a VMware Cloud Director environment. You learn about how the NSX Advanced Load Balancer can be used and integrated in a service provider environment and how to configure the load balancing services using VMware NSX-T Data Center. Besides the advanced know-how of the vRealize Operations Tenant App and Cloud Availability, the course also discusses the extensibility and orchestration of workflows in Cloud Director. For all the topics covered.

Classroom	40 Hours	MR-1CN-VMVCDAW102
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[VMware Cloud Director: Advanced Workshop \[V10.2\] - Virtual Class](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to design and utilize a cloud solution based on VMware Cloud Director™. Besides learning about an advanced cloud architecture, you learn about the integration of VMware Cloud Director with the products VMware Cloud Director Availability™, VMware vRealize® Orchestrator™, VMware vRealize® Operations™ (including the Tenant App), VMware NSX-T® Data Center and VMware NSX® Advanced Load Balancer™ (Avi Networks). This course covers the migration from VMware NSX® for vSphere® (NSX-V) to VMware NSX-T® Data Center in a VMware Cloud Director environment. You learn about how the NSX Advanced Load Balancer can be used and integrated in a service provider environment and how to configure the load balancing services using VMware NSX-T Data Center. Besides the advanced know-how of the vRealize Operations Tenant App and Cloud Availability, the course also discusses the extensibility and orchestration of workflows in Cloud Director. For all the topics covered.

Virtual Class	40 Hours	MR-1LN-VMVCDAW102
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[VMware Cloud Director: Install, Configure, Manage \[V10.1\]](#)

In this five-day course, you focus on installing, configuring, and managing VMware Cloud Director™ 10.x. You learn about workload provisioning, the creation of organizations, virtual data centers (VDCs), catalog services that include predefined virtual machines, and on-demand VMware NSX® networks. This course also covers interfacing VMware Cloud Director with other systems and the integration and use of VMware Cloud Director Availability™. You also learn how to manage multisite, cross-VDC networking, and configuring Central Point of Management (CPOM) to define a Software-defined Data Center (SDDC) for a tenant and provider users of VMware Cloud Director. This course also discusses how to monitor various VMware Cloud Director objects using VMware vRealize® Operations™ and discusses administering tenant-facing applications using vRealize® Operations Tenant App™.

Classroom	40 Hours	MR-1CN-VMVCDICM101
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[VMware Cloud Director: Install, Configure, Manage \[V10.1\] - Virtual](#)

In this five-day course, you focus on installing, configuring, and managing VMware Cloud Director™ 10.x. You learn about workload provisioning, the creation of organizations, virtual data centers (VDCs), catalog services that include predefined virtual machines, and on-demand VMware NSX® networks. This course also covers interfacing VMware Cloud Director with other systems and the integration and use of VMware Cloud Director Availability™. You also learn how to manage multisite, cross-VDC networking, and configuring Central Point of Management (CPOM) to define a Software-defined Data Center (SDDC) for a tenant and provider users of VMware Cloud Director. This course also discusses how to monitor various VMware Cloud Director objects using VMware vRealize® Operations™ and discusses administering tenant-facing applications using vRealize® Operations Tenant App™.

Virtual Class	40 Hours	MR-1LN-VMVCDICM101
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[VMware Cloud Foundation: Management and Operations \[V4.0\]](#)

This three-day course includes instruction on the capabilities of VMware Cloud Foundation™ to manage and operate hybrid and cloud infrastructures, which includes customization and management. The course explains the architecture of VMware Cloud Foundation and explains licensing, certificates, and storage and network management. The course also covers workload domains, availability, life cycle management, and troubleshooting. In general, you learn how to use and configure VMware Cloud Foundation 4.0.1.

Classroom	24 Hours	MR-1CN-VMVCFMO4
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[VMware Cloud Foundation: Management and Operations \[V4.0\] - Virtual Class](#)

This three-day course includes instruction on the capabilities of VMware Cloud Foundation™ to manage and operate hybrid and cloud infrastructures, which includes customization and management. The course explains the architecture of VMware Cloud Foundation and explains licensing, certificates, and storage and network management. The course also covers workload domains, availability, life cycle management, and troubleshooting. In general, you learn how to use and configure VMware Cloud Foundation 4.0.1.

Virtual Class	24 Hours	MR-1LN-VMVCFMO4
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[VMware Cloud Foundation: Plan and Deploy \[V4.0\]](#)

This two-day course introduces the concepts and architecture of VMware Cloud Foundation™ to prepare students for a successful deployment. This course explains how to design and size your infrastructure for the management components and for workload domains in preparing for VMware Cloud Foundation deployment. This course provides instruction on planning and designing the physical network, a key preparatory step for VMware Cloud Foundation. This course describes how to plan for, and execute, the VMware Cloud Foundation bring-up process. This course explains how to image VMware ESXi™ hosts for use in VMware Cloud Foundation using the VMware Imaging Appliance. Live labs provide hands-on experience to help understand key course objectives.

Classroom	16 Hours	MR-1CN-VMVCFPD4
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[VMware Cloud Foundation: Plan and Deploy \[V4.0\] - Virtual](#)

This two-day course introduces the concepts and architecture of VMware Cloud Foundation™ to prepare students for a successful deployment. This course explains how to design and size your infrastructure for the management components and for workload domains in preparing for VMware Cloud Foundation deployment. This course provides instruction on planning and designing the physical network, a key preparatory step for VMware Cloud Foundation. This course describes how to plan for, and execute, the VMware Cloud Foundation bring-up process. This course explains how to image VMware ESXi™ hosts for use in VMware Cloud Foundation using the VMware Imaging Appliance. Live labs provide hands-on experience to help understand key course objectives.

Virtual Class	16 Hours	MR-1LN-VMVCFPD4
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[VMware Cloud Foundation: Planning, Management, Operations \[V4.3\]](#)

This five-day course includes instruction on the capabilities of VMware Cloud Foundation™ and how to successfully plan, deploy, manage, and operate hybrid and cloud infrastructures, including customization. The course explains the architecture of VMware Cloud Foundation and explains licensing, certificates, and storage and network management. The course also covers workload domains, availability, life cycle management, and troubleshooting.

Classroom	40 Hours	MR-1CN-VMVCFPMO43
Virtual Class		MR-1CN-VMVCFPMO43

[VMware Cloud Foundation: Planning, Management, Operations \[V4.3\] - Virtual Class](#)

This five-day course includes instruction on the capabilities of VMware Cloud Foundation™ and how to successfully plan, deploy, manage, and operate hybrid and cloud infrastructures, including customization. The course explains the architecture of VMware Cloud Foundation and explains licensing, certificates, and storage and network management. The course also covers workload domains, availability, life cycle management, and troubleshooting.

Virtual Class	40 Hours	MR-1LN-VMVCFPMO43
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[VMware Cloud on AWS: Deploy, Configure, Manage 2021](#)

This four-day, hands-on training course provides you with the knowledge, skills, and tools for deploying and managing a VMware Cloud™ on AWS infrastructure. You explore the common use cases of the VMware Cloud on AWS infrastructure that allows you to modernize, protect, and scale applications based on VMware vSphere® that leverage AWS. In this course, you are introduced to various rapid and easy migration options for workloads based on vSphere to VMware Cloud on AWS. In addition, you are presented with VMware Cloud Disaster Recovery™, which is a Disaster Recovery as-a-service (DRaaS) solution, with fast recovery capabilities, that can be used to cost-effectively protect a broad set of your virtualized applications.

Classroom	32 Hours	MR-1CN-VMAWSDCM2021
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[VMware Cloud on AWS: Deploy, Configure, Manage 2021 - Virtual Class](#)

This four-day, hands-on training course provides you with the knowledge, skills, and tools for deploying and managing a VMware Cloud™ on AWS infrastructure. You explore the common use cases of the VMware Cloud on AWS infrastructure that allows you to modernize, protect, and scale applications based on VMware vSphere® that leverage AWS. In this course, you are introduced to various rapid and easy migration options for workloads based on vSphere to VMware Cloud on AWS. In addition, you are presented with VMware Cloud Disaster Recovery™, which is a Disaster Recovery as-a-service (DRaaS) solution, with fast recovery capabilities, that can be used to cost-effectively protect a broad set of your virtualized applications.

Virtual Class	32 Hours	MR-1LN- VMAWSDCM2021
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[VMware Data Center Automation with vRealize Orchestrator and vSphere PowerCLI - Classroom](#)

This five-day course teaches experienced VMware vSphere administrators how to use the powerful automation tools that all vSphere customers have access to. Using real-world use cases and examples, you will learn how to automate day-to-day administration tasks with VMware vSphere PowerCLI and VMware vRealize Orchestrator. During class, you will use these tools to automate tasks in a realistic lab environment.***Important***This Online ILT Class comes to Dell EMC through our training partner, Global Knowledge. Once enrolled in a class, you will receive an email from Global Knowledge providing you with information on materials and access to the class. Do not disregard communication from Global Knowledge, it may affect your ability to connect to the class.

Classroom	40 Hours	MR-1CN- VMDCAROS
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[VMware Data Center Automation with vRealize Orchestrator and vSphere PowerCLI - Virtual Classroom](#)

This five-day course teaches experienced VMware vSphere® administrators how to use the powerful automation tools that all vSphere customers have access to. Using real-world use cases and examples, you learn how to automate day-to-day administration tasks with VMware vSphere® PowerCLI™ and VMware vRealize® Orchestrator™. During class, you use these tools to automate tasks in a realistic lab environment.

Virtual Class	40 Hours	MR-1LN- VMDCAROS
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[VMware Data Center Virtualization: Core Technical Skills](#)

This three-day, hands-on training course is an introduction to VMware vSphere®. In this course, you acquire the skills needed to perform Day 2 operational tasks that are typically assigned to the roles of operator or junior administrator in a vSphere environment.

Classroom	24 Hours	MR-1CN- VMDCVCTS
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[VMware Data Center Virtualization: Core Technical Skills - Virtual Class](#)

This three-day, hands-on training course is an introduction to VMware vSphere®. In this course, you acquire the skills needed to perform Day 2 operational tasks that are typically assigned to the roles of operator or junior administrator in a vSphere environment.

Virtual Class	24 Hours	MR-1LN- VMDCVCTS
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[VMware HCX: Management and Operations](#)

This four-day course gives you knowledge and practical exercises sufficient to manage VMware HCX® and to migrate virtual machines using VMware HCX. The course focuses on configuration and management of VMware HCX. The course equips system administrators with the knowledge, skills, and abilities to achieve competence in migrating virtual machines.

Classroom	32 Hours	MR-1CN- VMHCXDMO
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[VMware HCX: Management and Operations - Virtual Class](#)

This four-day course gives you knowledge and practical exercises sufficient to manage VMware HCX® and to migrate virtual machines using VMware HCX. The course focuses on configuration and management of VMware HCX. The course equips system administrators with the knowledge, skills, and abilities to achieve competence in migrating virtual machines.

Virtual Class	32 Hours	MR-1LN- VMHCXDMO
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[VMware Horizon 8: Deploy and Manage](#)

VMware Horizon 8: Deploy and Manage is a five-day combination course of VMware Horizon 8: Skills for Virtual Desktop Management & VMware Horizon 8: Infrastructure Administration. This training collection gives you the hands-on skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You will build on your skills in configuring and managing VMware Horizon® 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users. Additionally, you will learn how to install and configure a virtual desktop infrastructure platform. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

Classroom	40 Hours	MR-1CN-VMHDM8
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[VMware Horizon 8: Deploy and Manage - Virtual Class](#)

VMware Horizon 8: Deploy and Manage is a five-day combination course of VMware Horizon 8: Skills for Virtual Desktop Management & VMware Horizon 8: Infrastructure Administration. This training collection gives you the hands-on skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You will build on your skills in configuring and managing VMware Horizon® 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users. Additionally, you will learn how to install and configure a virtual desktop infrastructure platform. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

Virtual Class	40 Hours	MR-1LN-VMHDM8
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[VMware Horizon 8: Deploy and Manage plus App Volumes Fast Track](#)

This five-day accelerated, hands-on training course is a blend of VMware Horizon® 8: Skills for Virtual Desktop Management, VMware Horizon 8: Infrastructure Administration, and VMware App Volumes™, and VMware Dynamic Environment Manager™. Eight days of content are taught in five-days of extended learning. This training collection gives you the hands-on skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You build on your skills in configuring and managing VMware Horizon 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users. You learn how to install and configure a virtual desktop infrastructure platform. You learn how to install and configure VMware Horizon® Connection Server™ and VMware Unified Access Gateway™. You also learn how to configure a load balancer for use with Horizon and how to establish Cloud Pod Architecture. Additionally, you learn how to u

Classroom	50 Hours	MR-1CN- VMHDMAVFT8
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[VMware Horizon 8: Deploy and Manage plus App Volumes Fast Track - Virtual](#)

This five-day accelerated, hands-on training course is a blend of VMware Horizon® 8: Skills for Virtual Desktop Management, VMware Horizon 8: Infrastructure Administration, and VMware App Volumes™, and VMware Dynamic Environment Manager™. Eight days of content are taught in five-days of extending learning. This training collection gives you the hands-on skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You build on your skills in configuring and managing VMware Horizon 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users. You learn how to install and configure a virtual desktop infrastructure platform. You learn how to install and configure VMware Horizon® Connection Server™ and VMware Unified Access Gateway™. You also learn how to configure a load balancer for use with Horizon and how to establish Cloud Pod Architecture. Additionally, you learn how to u

Virtual Class	50 Hours	MR-1LN-VMHDMAVFT8
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[VMware Horizon 8: Infrastructure Administration](#)

This two-day, hands-on course gives you the skills to install and configure a virtual desktop infrastructure platform. This course builds your skills in installing and configuring VMware Horizon® through a combination of lecture and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

Classroom	16 Hours	MR-1CN-VMHIA8
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[VMware Horizon 8: Infrastructure Administration - Virtual](#)

This two-day, hands-on course gives you the skills to install and configure a virtual desktop infrastructure platform. This course builds your skills in installing and configuring VMware Horizon® through a combination of lecture and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

Virtual Class	16 Hours	MR-1LN-VMHIA8
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[VMware Horizon 8: Infrastructure Administration and Troubleshooting](#)

VMware Horizon 8: Infrastructure Administrator and Troubleshooting is a five-day combination course of VMware Horizon8: Infrastructure Administration & VMware Horizon 8: Infrastructure Troubleshooting. This 5-day training gives you the skills to install and configure a virtual desktop infrastructure platform. This course builds your skills in installing and configuring VMware Horizon® through a combination of lecture and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture. Also, this course provides you with the advanced knowledge, skills, and abilities to troubleshoot VMware Horizon 8 infrastructure. This workshop teaches the required skill and competence for troubleshooting Horizon Connection Server, Unified Access Gateway, protocols, connections, and certificates. This course provides a challenge lab designed to present participants with infrastructure issues that may a

Classroom	40 Hours	MR-1CN-VMHIAT8
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[VMware Horizon 8: Infrastructure Administration and Troubleshooting - Virtual Class](#)

VMware Horizon 8: Infrastructure Administrator and Troubleshooting is a five-day combination course of VMware Horizon8: Infrastructure Administration & VMware Horizon 8: Infrastructure Troubleshooting. This 5-day training gives you the skills to install and configure a virtual desktop infrastructure platform. This course builds your skills in installing and configuring VMware Horizon® through a combination of lecture and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture. Also, this course provides you with the advanced knowledge, skills, and abilities to troubleshoot VMware Horizon 8 infrastructure. This workshop teaches the required skill and competence for troubleshooting Horizon Connection Server, Unified Access Gateway, protocols, connections, and certificates. This course provides a challenge lab designed to present participants with infrastructure issues that may a

Virtual Class	40 Hours	MR-1LN-VMHIAT8
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[VMware Horizon 8: Infrastructure Troubleshooting](#)

This three-day, hands-on training provides you with the advanced knowledge, skills, and abilities to troubleshoot VMware Horizon® 8 infrastructure. This workshop teaches the required skill and competence for troubleshooting VMware Horizon® Connection Server™, VMware Unified Access Gateway™, protocols, connections, and certificates.

Classroom	24 Hours	MR-1CN-VMHIT8
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[VMware Horizon 8: Infrastructure Troubleshooting - Virtual Class](#)

This three-day, hands-on training provides you with the advanced knowledge, skills, and abilities to troubleshoot VMware Horizon® 8 infrastructure. This workshop teaches the required skill and competence for troubleshooting VMware Horizon® Connection Server™, VMware Unified Access Gateway™, protocols, connections, and certificates.

Virtual Class	24 Hours	MR-1LN-VMHIT8
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[VMware Horizon 8: Skills for Virtual Desktop Management](#)

This three-day, hands-on course gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. This course builds your skills in configuring and managing VMware Horizon® 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users.

Classroom	24 Hours	MR-1CN-VMHSVDM8
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[VMware Horizon 8: Skills for Virtual Desktop Management - Virtual Class](#)

This three-day, hands-on course gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. This course builds your skills in configuring and managing VMware Horizon® 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users.

Virtual Class	24 Hours	MR-1LN-VMHSVDM8
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[VMware Horizon 8: Troubleshooting Bootcamp](#)

This five-day course builds your skills in resolving common issues that occur in a VMware Horizon® environment. You engage in a series of lab exercises to bring existing environment issues to resolution. The exercises mirror real-world troubleshooting use cases. These exercises equip learners with the knowledge and practical skills to manage typical challenges faced by virtual desktop administrators and operators and provides you with the advanced knowledge, skills, and abilities to troubleshoot VMware Horizon® 8 infrastructure related issues. This workshop teaches the required skill and competence for troubleshooting VMware Horizon® Connection Server™, VMware Unified Access Gateway™, protocols, connections, and certificates.

Classroom	40 Hours	MR-1CN-VMHTB8
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[VMware Horizon 8: Troubleshooting Bootcamp - Virtual Class](#)

This five-day course builds your skills in resolving common issues that occur in a VMware Horizon® environment. You engage in a series of lab exercises to bring existing environment issues to resolution. The exercises mirror real-world troubleshooting use cases. These exercises equip learners with the knowledge and practical skills to manage typical challenges faced by virtual desktop administrators and operators and provides you with the advanced knowledge, skills, and abilities to troubleshoot VMware Horizon® 8 infrastructure related issues. This workshop teaches the required skill and competence for troubleshooting VMware Horizon® Connection Server™, VMware Unified Access Gateway™, protocols, connections, and certificates.

Virtual Class	40 Hours	MR-1LN-VMHTB8
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[VMware Horizon 8: Virtual Desktop Bootcamp](#)

VMware Horizon® 8: Virtual Desktop Bootcamp is a five-day combination course of VMware Horizon 8: Skills for Virtual Desktop Management and VMware Horizon 8: Virtual Desktop Troubleshooting. This training combination gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You build skills in configuring and managing VMware Horizon 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users. Additionally, you learn how to resolve common issues that occur in a VMware Horizon environment. You engage in a series of lab exercises to bring existing environment issues to resolution. The exercises mirror real-world troubleshooting use cases. These exercises equip learners with the knowledge and practical skills to manage typical challenges faced by virtual desktop administrators and operators.

Classroom	40 Hours	MR-1CN-VMHVD8
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[VMware Horizon 8: Virtual Desktop Bootcamp - Virtual Class](#)

VMware Horizon® 8: Virtual Desktop Bootcamp is a five-day combination course of VMware Horizon 8: Skills for Virtual Desktop Management and VMware Horizon 8: Virtual Desktop Troubleshooting. This training combination gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You build skills in configuring and managing VMware Horizon 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users. Additionally, you learn how to resolve common issues that occur in a VMware Horizon environment. You engage in a series of lab exercises to bring existing environment issues to resolution. The exercises mirror real-world troubleshooting use cases. These exercises equip learners with the knowledge and practical skills to manage typical challenges faced by virtual desktop administrators and operators.

Virtual Class	40 Hours	MR-1LN-VMHVD8
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[VMware Horizon 8: Virtual Desktop Troubleshooting](#)

This two-day course builds your skills in resolving common issues that occur in a VMware Horizon® environment. You engage in a series of lab exercises to bring existing environment issues to resolution. The exercises mirror real-world troubleshooting use cases. These exercises equip learners with the knowledge and practical skills to manage typical challenges faced by virtual desktop administrators and operators.

Classroom	16 Hours	MR-1CN-VMHVD8
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[VMware Horizon 8: Virtual Desktop Troubleshooting - Virtual Class](#)

This two-day course builds your skills in resolving common issues that occur in a VMware Horizon® environment. You engage in a series of lab exercises to bring existing environment issues to resolution. The exercises mirror real-world troubleshooting use cases. These exercises equip learners with the knowledge and practical skills to manage typical challenges faced by virtual desktop administrators and operators.

Virtual Class	16 Hours	MR-1LN-VMHVD8
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[VMware Horizon Cloud Service: Deploy and Manage on Microsoft Azure](#)

This five-day, hands-on training provides you with the knowledge, skills, and abilities to achieve competence in deploying and managing VMware Horizon® Cloud Service™ on Microsoft Azure. This training increases your skills and competence in using the VMware Horizon® Cloud Administration Console and Microsoft Azure portal. Through a combination of hands-on labs and interactive lectures, you learn how to import and manage images for VDI and RDSH assignments. You also learn how to configure and use the Universal Broker function, VMware App Volumes™, and VMware Dynamic Environment Manager™ in the Horizon Cloud Service on Microsoft Azure deployment.

Classroom	40 Hours	MR-1CN-VMHCSADM3
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[VMware Horizon Cloud Service: Deploy and Manage on Microsoft Azure - Virtual Class](#)

This five-day, hands-on training provides you with the knowledge, skills, and abilities to achieve competence in deploying and managing VMware Horizon® Cloud Service™ on Microsoft Azure. This training increases your skills and competence in using the VMware Horizon® Cloud Administration Console and Microsoft Azure portal. Through a combination of hands-on labs and interactive lectures, you learn how to import and manage images for VDI and RDSH assignments. You also learn how to configure and use the Universal Broker function, VMware App Volumes™, and VMware Dynamic Environment Manager™ in the Horizon Cloud Service on Microsoft Azure deployment.

Virtual Class	40 Hours	MR-1LN-VMHCSADM3
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[VMware Integrated OpenStack: Install, Configure, Manage \[V7\]](#)

This five-day course provides you with the skills to build a private cloud using VMware® Integrated OpenStack on a proven VMware SDDC. Through a combination of lecture and hands-on labs, this course builds your skills in installing, configuring, and managing VMware Integrated OpenStack. You learn how to offer IaaS and PaaS with advanced networking and security features to end users using VMware Integrated OpenStack.

Classroom	40 Hours	MR-1CN-VMVIOCM7
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[VMware Integrated OpenStack: Install, Configure, Manage \[V7\] - Virtual](#)

This five-day course provides you with the skills to build a private cloud using VMware® Integrated OpenStack on a proven VMware SDDC. Through a combination of lecture and hands-on labs, this course builds your skills in installing, configuring, and managing VMware Integrated OpenStack. You learn how to offer IaaS and PaaS with advanced networking and security features to end users using VMware Integrated OpenStack.

Virtual Class	40 Hours	MR-1LN-VMVIOICM7
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[VMware Kubernetes Fundamentals and Cluster Operations](#)

This four-day course is the first step in learning about Containers and Kubernetes Fundamentals and Cluster Operations. Through a series of lectures and lab exercises, the fundamental concepts of containers and Kubernetes are presented and put to practice by containerizing and deploying a two-tier application into Kubernetes.

Classroom	32 Hours	MR-1CN-VMKFCO
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[VMware Kubernetes Fundamentals and Cluster Operations - Virtual Class](#)

This four-day course is the first step in learning about Containers and Kubernetes Fundamentals and Cluster Operations. Through a series of lectures and lab exercises, the fundamental concepts of containers and Kubernetes are presented and put to practice by containerizing and deploying a two-tier application into Kubernetes.

Virtual Class	32 Hours	MR-1LN-VMKFCO
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[VMware NSX Advanced Load Balancer: Global Server Load Balancing Design and Deploy](#)

This 3-day course prepares you to lead VMware NSX Advanced Load Balancer (Avi Networks) Global Server Load Balancing design and deployment projects by providing an understanding of general design processes, frameworks and configurations. You look at the design and deployment considerations for Global Server Load Balancing as part of an overall software-defined data center design. This course covers key NSX Advanced Load Balancer (Avi Networks) Global Server Load Balancing features and functionalities offered in the NSX Advanced Load Balancer 18.2 release. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	24 Hours	MR-1CN-VMNSXALBDD
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[VMware NSX Advanced Load Balancer: Global Server Load Balancing Design and Deploy - Virtual Class](#)

This 3-day course prepares you to lead VMware NSX Advanced Load Balancer (Avi Networks) Global Server Load Balancing design and deployment projects by providing an understanding of general design processes, frameworks and configurations. You look at the design and deployment considerations for Global Server Load Balancing as part of an overall software-defined data center design. This course covers key NSX Advanced Load Balancer (Avi Networks) Global Server Load Balancing features and functionalities offered in the NSX Advanced Load Balancer 18.2 release. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Virtual Class	24 Hours	MR-1LN-VMNSXALBDD
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[VMware NSX Advanced Load Balancer: ICM plus Troubleshooting and Operations Fast Track](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX Advanced Load Balancer (Avi Networks) solution. This course covers key NSX Advanced Load Balancer (Avi Networks) features and functionality offered in the NSX Advanced Load Balancer 18.2 release. The features covered include the overall infrastructure, virtual services and application components, global server load balancing, various cloud connectors. Also covered are application troubleshooting and solution monitoring. You will be presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	40 Hours	MR-1CN-VMNSXABICMTFT
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[VMware NSX Advanced Load Balancer: ICM plus Troubleshooting and Operations Fast Track - Virtual Class](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX Advanced Load Balancer (Avi Networks) solution. This course covers key NSX Advanced Load Balancer (Avi Networks) features and functionality offered in the NSX Advanced Load Balancer 18.2 release. The features covered include the overall infrastructure, virtual services and application components, global server load balancing, various cloud connectors. Also covered are application troubleshooting and solution monitoring. You will be presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Virtual Class	40 Hours	MR-1LN-VMNSXABICMTFT
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[VMware NSX Advanced Load Balancer: Infrastructure and Application Automation](#)

This three-day, fast-paced course provides comprehensive training on how to automate infrastructure and application components of VMware NSX Advanced Load Balancer (Avi Networks) solution. This course covers key application delivery features of NSX Advanced Load Balancer (Avi Networks) features and functionality offered in VMware NSX Advanced Load Balancer 18.2 release and focuses on how to plan and implement automation of infrastructure and application components leveraging REST API, SDK or automation solutions such as Ansible, Terraform or similar. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	24 Hours	MR-1CN-VMNSXALBIAA
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[VMware NSX Advanced Load Balancer: Infrastructure and Application Automation - Virtual Class](#)

This three-day, fast-paced course provides comprehensive training on how to automate infrastructure and application components of VMware NSX Advanced Load Balancer (Avi Networks) solution. This course covers key application delivery features of NSX Advanced Load Balancer (Avi Networks) features and functionality offered in VMware NSX Advanced Load Balancer 18.2 release and focuses on how to plan and implement automation of infrastructure and application components leveraging REST API, SDK or automation solutions such as Ansible, Terraform or similar. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Virtual Class	24 Hours	MR-1LN-VMNSXALBIAA
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[VMware NSX Advanced Load Balancer: Install, Configure, Manage](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX® Advanced Load Balancer™ (Avi Networks) solution. This course covers key NSX Advanced Load Balancer (Avi Networks) features and functionality offered in the NSX Advanced Load Balancer 18.2 release. The features covered include the overall infrastructure, virtual services and application components, global server load balancing, various cloud connectors. Also covered are application troubleshooting and solution monitoring. Access to a software-defined datacenter environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	40 Hours	MR-1CN-VMNSXALBICM
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[VMware NSX Advanced Load Balancer: Install, Configure, Manage - Virtual Class](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX® Advanced Load Balancer™ (Avi Networks) solution. This course covers key NSX Advanced Load Balancer (Avi Networks) features and functionality offered in the NSX Advanced Load Balancer 18.2 release. The features covered include the overall infrastructure, virtual services and application components, global server load balancing, various cloud connectors. Also covered are application troubleshooting and solution monitoring. Access to a software-defined datacenter environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Virtual Class	40 Hours	MR-1LN-VMNSXALBICM
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[VMware NSX Advanced Load Balancer: Troubleshooting and Operations - Virtual Class](#)

This 3-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in configuring, operating, and troubleshooting the VMware NSX Advanced Load Balancer solutions. In this course, you are introduced to several operational, management, and troubleshooting tools. You will be presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Virtual Class	24 Hours	MR-1LN-VMNSXALBTO
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[VMware NSX Advanced Load Balancer: Web Application Firewall Security](#)

This three-day course provides comprehensive training on how to configure, maintain and troubleshoot the Web Application Firewall component of the VMware NSX Advanced Load Balancer (Avi Networks) solution as well as provide an understanding of additional security related functionality. This course covers key NSX Advanced Load Balancer (Avi Networks) Web Application Firewall features and functionality offered in the NSX Advanced Load Balancer 18.2 release, including the overall infrastructure, virtual services and application components as well as application troubleshooting and solution monitoring. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	24 Hours	MR-1CN-VMNSXALBWAFS
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[VMware NSX Advanced Load Balancer: Web Application Firewall Security - Virtual Class](#)

This three-day course provides comprehensive training on how to configure, maintain and troubleshoot the Web Application Firewall component of the VMware NSX Advanced Load Balancer (Avi Networks) solution as well as provide an understanding of additional security related functionality. This course covers key NSX Advanced Load Balancer (Avi Networks) Web Application Firewall features and functionality offered in the NSX Advanced Load Balancer 18.2 release, including the overall infrastructure, virtual services and application components as well as application troubleshooting and solution monitoring. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Virtual Class	24 Hours	MR-1LN-VMNSXALBWAFS
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[VMware NSX SD-WAN by VeloCloud Deploy and Manage - Online ILT](#)

During this one-day course, you gain an understanding of the architecture and features of VMware SD-WAN by VeloCloud™. This course provides extensive hands-on labs in which you enable core SD-WAN features, such as ensuring application performance using business policies, traffic redirections, and network service insertion.

Virtual Class	08 Hours	MR-1LN-VMNSXVCDM
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[VMware NSX-T Data Center for Intrinsic Security \[V3.1\]](#)

This five-day, hands-on training course provides you with the knowledge, skills, and tools to achieve competency in configuring, operating, and troubleshooting VMware NSX-T™ Data Center for intrinsic security. In this course, you are introduced to all the security features in NSX-T Data Center, including distributed and gateway firewall, Intrusion Detection and Prevention (IDS/IPS), VMware NSX® Intelligence™, and Network Detection and Response (NDR). In addition, you are presented with common configuration issues and given a methodology to resolve them.

Classroom	40 Hours	MR-1CN-VMNSXTIS31
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[VMware NSX-T Data Center for Intrinsic Security \[V3.1\] - Virtual Class](#)

This five-day, hands-on training course provides you with the knowledge, skills, and tools to achieve competency in configuring, operating, and troubleshooting VMware NSX-T™ Data Center for intrinsic security. In this course, you are introduced to all the security features in NSX-T Data Center, including distributed and gateway firewall, Intrusion Detection and Prevention (IDS/IPS), VMware NSX® Intelligence™, and Network Detection and Response (NDR). In addition, you are presented with common configuration issues and given a methodology to resolve them.

Virtual Class	40 Hours	MR-1LN-VMNSXTIS31
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[VMware NSX-T Data Center: Design \[V3.0\]](#)

This five-day course provides comprehensive training on considerations and practices to design a VMware NSX-T™ Data Center environment as part of a software-defined data center strategy. This course prepares the student with the skills to lead the design of NSX-T Data Center offered in the NSX-T Data Center 3.0 release, including design principles, processes, and frameworks. The student gains a deeper understanding of NSX-T Data Center architecture and how it can be leveraged to create solutions to address the customer's business needs.

Classroom	40 Hours	MR-1CN-VMNSXTD3
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[VMware NSX-T Data Center: Design \[V3.0\] - Virtual](#)

This five-day course provides comprehensive training on considerations and practices to design a VMware NSX-T™ Data Center environment as part of a software-defined data center strategy. This course prepares the student with the skills to lead the design of NSX-T Data Center offered in the NSX-T Data Center 3.0 release, including design principles, processes, and frameworks. The student gains a deeper understanding of NSX-T Data Center architecture and how it can be leveraged to create solutions to address the customer's business needs.

Virtual Class	40 Hours	MR-1LN-VMNSXTD3
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[VMware NSX-T Data Center: Install, Configure, Manage \[V2.4\]](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-T Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 2.4 release, including the overall infrastructure, logical segments, logical routers, networking and security services, micro-segmentation and firewalls, and so on. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	40 Hours	MR-1CN-VMWNSXTICMV2.4
Virtual Class		MR-1CN-VMWNSXTICMV2.4

[VMware NSX-T Data Center: Install, Configure, Manage \[V3.0\]](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-T Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 3.0 release, including the overall infrastructure, logical switching, logical routing, networking and security services, micro-segmentation and firewalls, and more. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	40 Hours	MR-1CN-VMNSXTICM3
Virtual Class	40 Hours	MR-1CN-VMNSXTICM3

[VMware NSX-T Data Center: Install, Configure, Manage \[V3.0\] - Virtual Class](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-T Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 3.0 release, including the overall infrastructure, logical switching, logical routing, networking and security services, micro-segmentation and firewalls, and more. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Virtual Class	40 Hours	MR-1LN-VMNSXTICM3
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[VMware NSX-T Data Center: Install, Configure, Manage \[V3.2\]](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-TTM Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 3.2 release, including the overall infrastructure, logical switching, logical routing, networking and security services, firewalls and advanced threat prevention, and more.

Classroom	40 Hours	MR-1CN-VMNSXTICM32
Virtual Class		MR-1CN-VMNSXTICM32

[VMware NSX-T Data Center: Install, Configure, Manage \[V3.2\] - Virtual Class](#)

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-TTM Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 3.2 release, including the overall infrastructure, logical switching, logical routing, networking and security services, firewalls and advanced threat prevention, and more.

Virtual Class	40 Hours	MR-1LN-VMNSXTICM32
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[VMware NSX-T Data Center: Migration from NSX Data Center for vSphere](#)

This three-day, hands-on training course provides you with the skills, techniques, and tools required to successfully migrate your current VMware NSX Data Center for vSphere environment to VMware NSX-T Data Center. In this course, you learn to choose between different migration approaches and to perform the type of migration that best suits your current environment. In addition, you are presented with common migration problems and resolutions.

Classroom	24 Hours	MR-1CN-VMNSXTVS
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[VMware NSX-T Data Center: Migration from NSX Data Center for vSphere - Virtual Class](#)

This three-day, hands-on training course provides you with the skills, techniques, and tools required to successfully migrate your current VMware NSX Data Center for vSphere environment to VMware NSX-T Data Center. In this course, you learn to choose between different migration approaches and to perform the type of migration that best suits your current environment. In addition, you are presented with common migration problems and resolutions.

Virtual Class	24 Hours	MR-1LN-VMNSXTVS
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[VMware NSX-T Data Center: Multisite Deployments with Federation](#)

This three-day, hands-on training course provides you with the knowledge and skills to achieve competency in deploying, configuring, and managing the VMware NSX-T Data Center Federation. This course first introduces you to the architecture of the NSX-T Data Center Federation and then covers all features and functionality offered in the Federation, including the deployment of logical switching, logical routing, and security policies across multiple sites. Finally, the course describes various disaster recovery scenarios for the Federation.

Classroom	24 Hours	MR-1CN-VMMSDNSXF
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[VMware NSX-T Data Center: Multisite Deployments with Federation - Virtual Class](#)

This three-day, hands-on training course provides you with the knowledge and skills to achieve competency in deploying, configuring, and managing the VMware NSX-T Data Center Federation. This course first introduces you to the architecture of the NSX-T Data Center Federation and then covers all features and functionality offered in the Federation, including the deployment of logical switching, logical routing, and security policies across multiple sites. Finally, the course describes various disaster recovery scenarios for the Federation.

Virtual Class	24 Hours	MR-1LN-VMMSDNSXF
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[VMware NSX-T Data Center: Troubleshooting and Operations \[V2.4\] - Classroom](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware NSX-TTM Data Center environment. In this course, you are introduced to workflows of various networking and security constructs along with several operational and troubleshooting tools that help managing and troubleshooting your NSX-T Data Center. In addition, you are presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Classroom	40 Hours	MR-1CN-VMNSXTT024
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[VMware NSX-T Data Center: Troubleshooting and Operations \[V2.4\] - Online ILT](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware NSX-TTM Data Center environment. In this course, you are introduced to workflows of various networking and security constructs along with several operational and troubleshooting tools that help managing and troubleshooting your NSX-T Data Center. In addition, you are presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Virtual Class	40 Hours	MR-1LN-VMNSXTTO24
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[VMware NSX-T Data Center: Troubleshooting and Operations \[V3.0\]](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware NSX-TTM Data Center environment. In this course, you are introduced to workflows of various networking and security constructs along with several operational and troubleshooting tools that help managing and troubleshooting your NSX-T Data Center. In addition, you are presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Classroom	40 Hours	MR-1CN-VMNSXTTO3.0
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[VMware NSX-T Data Center: Troubleshooting and Operations \[V3.0\] - Online ILT](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware NSX-TTM Data Center environment. In this course, you are introduced to workflows of various networking and security constructs along with several operational and troubleshooting tools that help managing and troubleshooting your NSX-T Data Center. In addition, you are presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Virtual Class	40 Hours	MR-1LN-VMNSXTTO3.0
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[VMware NSX-T Data Center: What's New \[V3.2\]](#)

In this three-day, hands-on training course, you explore the new features and enhancements in VMware NSX-T™ DataCenter 3.2. You will be introduced to all new security features in NSX-T Data Center 3.2, including the NSX ApplicationPlatform, NSX Malware Prevention, NSX Intrusion Detection and Prevention, URL Filtering, VMware NSX® Intelligence™, and VMware NSX® Network Detection and Response™. This course also discusses the architectural and operational changes introduced in 3.2 and discusses the enhancements to OSPF, VMware NSX® Advanced Load Balancer™, and NSX Federation.

Classroom	24 Hours	MR-1CN-VMNSXTWN32
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[VMware NSX-T Data Center: What's New \[V3.2\] - Virtual Class](#)

In this three-day, hands-on training course, you explore the new features and enhancements in VMware NSX-T™ DataCenter 3.2. You will be introduced to all new security features in NSX-T Data Center 3.2, including the NSX ApplicationPlatform, NSX Malware Prevention, NSX Intrusion Detection and Prevention, URL Filtering, VMware NSX® Intelligence™, and VMware NSX® Network Detection and Response™. This course also discusses the architectural and operational changes introduced in 3.2 and discusses the enhancements to OSPF, VMware NSX® Advanced Load Balancer™, and NSX Federation.

Virtual Class	24 Hours	MR-1LN-VMNSXTWN32
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[VMware NSX: Install Configure Manage \[V6.4\]](#)

This five-day, comprehensive, fast-paced training course presents VMware NSX as a part of the software-defined data center. You will learn how to use logical switching in VMware NSX to virtualize your switching environment. The course also details logical routing to enable you to dynamically route between different virtual environments. You will also learn how to use gateway services, firewall configurations, and security services to help secure and optimize your VMware NSX environment. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Classroom	40 Hours	MR-1CN-VMWNSXICMV64
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[VMware NSX: Install Configure Manage \[V6.4\] - Online ILT](#)

This five-day, comprehensive, fast-paced training course presents VMware NSX as a part of the software-defined data center. You will learn how to use logical switching in VMware NSX to virtualize your switching environment. The course also details logical routing to enable you to dynamically route between different virtual environments. You will also learn how to use gateway services, firewall configurations, and security services to help secure and optimize your VMware NSX environment. Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Virtual Class	40 Hours	MR-1LN-VMWNSXICMV64
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[VMware NSX: Troubleshooting and Operations \[V6.4\]](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competence in operating and troubleshooting the VMware NSX 6.4 environment. In this course, you will be introduced to several operational, management, and troubleshooting tools. You will be presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Classroom	40 Hours	MR-1CN-VMNSXTSOV64
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[VMware NSX: Troubleshooting and Operations \[V6.4\] - Online ILT](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competence in operating and troubleshooting the VMware NSX 6.4 environment. In this course, you will be introduced to several operational, management, and troubleshooting tools. You will be presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Virtual Class	40 Hours	MR-1LN-VMNSXTSOV64
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[VMware SD-WAN by VeloCloud: Deploy and Manage](#)

During this one-day course, you gain an understanding of the architecture and features of VMware SDWAN by VeloCloud™. This course provides extensive hands-on labs in which you enable core SD-WAN features, such as ensuring application performance using business policies, traffic redirections, and network service insertion.

Classroom	08 Hours	MR-1CN-VMSDWANDM
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[VMware SD-WAN by VeloCloud: Deploy and Manage - Virtual Class](#)

During this one-day course, you gain an understanding of the architecture and features of VMware SDWAN by VeloCloud™. This course provides extensive hands-on labs in which you enable core SD-WAN features, such as ensuring application performance using business policies, traffic redirections, and network service insertion.

Virtual Class	08 Hours	MR-1LN-VMSDWANDM
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[VMware SD-WAN by VeloCloud: Design and Deploy \[3.x\]](#)

Customers demand a scalable, secure, and manageable VMware SD-WAN™ by VeloCloud®. To deliver a successful solution you must understand VMware SD-WAN architecture, know how the features can solve customer use cases, and be able to design a VMware SD-WAN that can be easily deployed, managed, and expanded.

Classroom	24 Hours	MR-1CN-VMNSXVCCD3
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[VMware SD-WAN by VeloCloud: Design and Deploy \[3.x\] - Virtual Class](#)

Customers demand a scalable, secure, and manageable VMware SD-WAN™ by VeloCloud®. To deliver a successful solution you must understand VMware SD-WAN architecture, know how the features can solve customer use cases, and be able to design a VMware SD-WAN that can be easily deployed, managed, and expanded.

Virtual Class	24 Hours	MR-1LN-VMNSXVCCD3
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[VMware Site Recovery Manager: Install Configure Manage \[V8.2\] - Online ILT](#)

This two-day, hands-on training course gives experienced VMware vSphere administrators the knowledge to install, configure, and manage VMware Site Recovery Manager 8.2. This course also shows you how to write and test disaster recovery plans that use Site Recovery Manager.

Virtual Class	16 Hours	MR-1LN-VMSRMICM82
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[VMware Spring Boot: Developer - Virtual Class](#)

This 2-day course offers experience with Spring Boot and its major features, including auto-configuration, Actuator, Spring Boot testing framework and more. On completion, participants will have a foundation for creating enterprise and cloud-ready applications. Please note that this course is a subset of the material in our 4-day Spring: Core Training course - there is no need to take both courses. This course is recommended if you have a good working knowledge of Spring Basics (see Prerequisites) but are new to Spring Boot.

Virtual Class	16 Hours	MR-1LN-VMSBD
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[VMware Spring Security](#)

This 2-day course offers hands-on experience with the major features of Spring Security, which includes configuration, authentication, authorization, password handling, testing, protecting against security threats, and the OAuth2 support to secure applications. On completion, participants will have a foundation for securing enterprise and microservices applications.

Classroom	16 Hours	MR-1CN-VMSS
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[VMware Spring Security - Virtual Class](#)

This 2-day course offers hands-on experience with the major features of Spring Security, which includes configuration, authentication, authorization, password handling, testing, protecting against security threats, and the OAuth2 support to secure applications. On completion, participants will have a foundation for securing enterprise and microservices applications.

Virtual Class	16 Hours	MR-1LN-VMSS
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[VMware Spring: Core Training - Virtual Class](#)

This 4-day course offers hands-on experience with the major features of Spring and Spring Boot, which includes configuration, data access, REST, AOP, auto-configuration, actuator, security, and Spring testing framework to build enterprise and microservices applications. On completion, participants will have a foundation for creating enterprise and cloud-ready applications. This course prepares students for the Spring Professional certification exam.

Virtual Class	32 Hours	MR-1LN-VMSC7
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[VMware Tanzu Kubernetes Grid Integrated Edition: Install, Configure, Manage \[V1.10\]](#)

This four-day, hands-on training course provides you with the knowledge, skills, and tools to install, configure, and manage VMware Tanzu™ Kubernetes Grid™ Integrated Edition (formerly known as VMware Enterprise PKS). In this course, you are introduced to the workflows of Tanzu Kubernetes Grid Integrated Edition to manage Kubernetes clusters using BOSH, and the integration of Tanzu Kubernetes Grid Integrated Edition with other VMware products. In addition, you are presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Classroom	32 Hours	MR-1CN-VMTKGIEICM110
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[VMware Tanzu Kubernetes Grid Integrated Edition: Install, Configure, Manage \[V1.10\] - Virtual Class](#)

This four-day, hands-on training course provides you with the knowledge, skills, and tools to install, configure, and manage VMware Tanzu™ Kubernetes Grid™ Integrated Edition (formerly known as VMware Enterprise PKS). In this course, you are introduced to the workflows of Tanzu Kubernetes Grid Integrated Edition to manage Kubernetes clusters using BOSH, and the integration of Tanzu Kubernetes Grid Integrated Edition with other VMware products. In addition, you are presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Virtual Class	32 Hours	MR-1LN-VMTKGIEICM110
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[VMware Tanzu Kubernetes Grid: Install, Configure, Manage \[V1.3\]](#)

During this three-day course, you focus on installing VMware Tanzu™ Kubernetes Grid™ on a VMware vSphere® environment and then provisioning and managing Tanzu Kubernetes clusters. The concepts learned in this course should be transferable for users who need to install Tanzu Kubernetes Grid on other supported clouds.

Classroom	24 Hours	MR-1CN-VMTKGICM13
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[VMware Tanzu Kubernetes Grid: Install, Configure, Manage \[V1.3\] - Virtual Class](#)

During this three-day course, you focus on installing VMware Tanzu™ Kubernetes Grid™ on a VMware vSphere® environment and then provisioning and managing Tanzu Kubernetes clusters. The concepts learned in this course should be transferable for users who need to install Tanzu Kubernetes Grid on other supported clouds.

Virtual Class	24 Hours	MR-1LN-VMTKGICM13
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[VMware Tanzu Mission Control: Management and Operations 2020](#)

During this one-day course, you focus on using VMware Tanzu™ Mission Control™ to provision and manage Kubernetes clusters. The course covers how to manage on-premise and cloud-based Kubernetes clusters and how to apply access, image registry, and network policies to clusters.

Classroom	08 Hours	MR-1CN-VMTMCMO2020
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[VMware Tanzu Mission Control: Management and Operations 2020 - Virtual Class](#)

During this one-day course, you focus on using VMware Tanzu™ Mission Control™ to provision and manage Kubernetes clusters. The course covers how to manage on-premise and cloud-based Kubernetes clusters and how to apply access, image registry, and network policies to clusters.

Virtual Class	08 Hours	MR-1LN- VMTMCMO2020
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[VMware Tanzu Mission Control: Management and Operations 2022](#)

During this two-day course, you focus on using VMware Tanzu™ Mission Control™ to provision and manage Kubernetes clusters. The course covers how to apply access, image registry, network, security, quota, and custom policies to Kubernetes environments. For cluster provisioning and management, the course focuses on deploying, upgrading, backing up and monitoring Kubernetes clusters on VMware vSphere® with Tanzu. Given the abstractions of VMware Tanzu Mission Control, the learnings should be transferable to public cloud.

Classroom	16 Hours	MR-1CN- VMTMCMO2022
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[VMware Tanzu Mission Control: Management and Operations 2022 - Virtual Class](#)

During this two-day course, you focus on using VMware Tanzu™ Mission Control™ to provision and manage Kubernetes clusters. The course covers how to apply access, image registry, network, security, quota, and custom policies to Kubernetes environments. For cluster provisioning and management, the course focuses on deploying, upgrading, backing up and monitoring Kubernetes clusters on VMware vSphere® with Tanzu. Given the abstractions of VMware Tanzu Mission Control, the learnings should be transferable to public cloud.

Virtual Class	16 Hours	MR-1LN- VMTMCMO2022
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[VMware vCloud Director: Install, Configure, Manage \[V9.7\]](#)

In this five-day course, you focus on installing, configuring, and managing VMware vCloud Director® for Service Providers 9.x. You learn about self-service provisioning, the creation of organizations, virtual datacenters (VDCs), catalog services that include predefined virtual machines, and on-demand VMware NSX® networks. This course also covers interfacing VMware vCloud Director® with other systems using various APIs and the integration and use of VMware vCloud® Availability for vCloud Director®. You will also understand how to manage multisite, cross-VDC networking for vCloud Director and configuring Central Point of Management (CPOM) to define a Software-defined Datacenter (SDDC) for tenant and provider users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize® Operations™, Tenant vApp, and VMware vRealize® Log Insight™.

Classroom	40 Hours	MR-1CN- VMVICM97
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[VMware vCloud Director: Install, Configure, Manage \[V9.7\] - Online ILT](#)

In this five-day course, you focus on installing, configuring, and managing VMware vCloud Director for Service Providers 9.x. You learn about self-service provisioning, the creation of organizations, virtual datacenters (VDCs), catalog services that include predefined virtual machines, and on-demand VMware NSX® networks. This course also covers interfacing VMware vCloud Director with other systems using various APIs and the integration and use of VMware vCloud Availability for vCloud Director. You will also understand how to manage multisite, cross-VDC networking for vCloud Director and configuring Central Point of Management (CPOM) to define a Software-defined Datacenter (SDDC) for tenant and provider users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize Operations™, Tenant vApp, and VMware vRealize Log Insight™.

Virtual Class		MR-1LN- VMVICM97
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[VMware vCloud Director: Tenant Operations \[V10.x\]](#)

In this five-day course, you focus on configuring and managing VMware vCloud Director® for Service Providers 10.x Tenant Operations. You learn about self-service provisioning, the creation of virtual datacenter networks, vApp and its networks, catalog services that include predefined virtual machines (VMs), and on-demand VMware NSX® networks. This course covers integrating VMware vCloud Director® with VMware vRealize® Orchestrator™ and the use of VMware vCloud® Availability. You learn how to manage multisite, cross-VDC networking for vCloud Director. You also learn how to use Central Point of Management (CPOM) to define a software-defined datacenter (SDDC) for tenant users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize® Operations Manager™.

Classroom	40 Hours	MR-1CN- VMVCDTO10
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[VMware vCloud Director: Tenant Operations \[V10.x\] - Virtual Class](#)

In this five-day course, you focus on configuring and managing VMware vCloud Director® for Service Providers 10.x Tenant Operations. You learn about self-service provisioning, the creation of virtual datacenter networks, vApp and its networks, catalog services that include predefined virtual machines (VMs), and on-demand VMware NSX® networks. This course covers integrating VMware vCloud Director® with VMware vRealize® Orchestrator™ and the use of VMware vCloud® Availability. You learn how to manage multisite, cross-VDC networking for vCloud Director. You also learn how to use Central Point of Management (CPOM) to define a software-defined datacenter (SDDC) for tenant users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize® Operations Manager™.

Virtual Class	40 Hours	MR-1LN- VMVCDTO10
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[VMware vCloud NFV with vCloud Director \[V9.7\]](#)

This five-day, hands-on training course discusses Network Functions Virtualization (NFV), a network architecture concept that specifies how virtualization technologies can be used to virtualize network service functions. This course covers interfacing VMware vCloud Director® with other systems using various APIs and the integration and use of VMware vCloud® Availability for vCloud Director®. You will understand how to manage multisite, cross-VDC (Virtual Data Center) networking for vCloud Director. You will also understand how to configure Central Point of Management (CPOM) to define a software-defined datacenter (SDDC) for tenant and provider users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize® Operations™, Tenant vApp, and VMware vRealize® Log Insight™.

Classroom	40 Hours	MR-1CN- VMNFVCD97
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[VMware vCloud NFV with vCloud Director \[V9.7\] - Virtual Class](#)

This five-day, hands-on training course discusses Network Functions Virtualization (NFV), a network architecture concept that specifies how virtualization technologies can be used to virtualize network service functions. This course covers interfacing VMware vCloud Director® with other systems using various APIs and the integration and use of VMware vCloud® Availability for vCloud Director®. You will understand how to manage multisite, cross-VDC (Virtual Data Center) networking for vCloud Director. You will also understand how to configure Central Point of Management (CPOM) to define a software-defined datacenter (SDDC) for tenant and provider users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize® Operations™, Tenant vApp, and VMware vRealize® Log Insight™.

Virtual Class	40 Hours	MR-1LN- VMNFVCD97
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[VMware vRealize Automation SaltStack Config: Deploy & Manage \[V8.4\]](#)

This three-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in deploying and using VMware vRealize® Automation SaltStack® Config. SaltStack Config is a powerful software configuration management component available in VMware vRealize® Automation. With SaltStack Config you can easily define optimized, secure software states and enforce them across your entire environment, including virtualized, hybrid, or public cloud systems. In this course, you are introduced to configuration management and how SaltStack Config can install software, maintain system configurations, change systems immediately with scalable remote execution, and automatically correct configuration problems in deployed virtual applications.

Classroom	24 Hours	MR-1CN-VMVRASSCDM84
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[VMware vRealize Automation SaltStack Config: Deploy & Manage \[V8.4\] - Virtual Class](#)

This three-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in deploying and using VMware vRealize® Automation SaltStack® Config. SaltStack Config is a powerful software configuration management component available in VMware vRealize® Automation. With SaltStack Config you can easily define optimized, secure software states and enforce them across your entire environment, including virtualized, hybrid, or public cloud systems. In this course, you are introduced to configuration management and how SaltStack Config can install software, maintain system configurations, change systems immediately with scalable remote execution, and automatically correct configuration problems in deployed virtual applications.

Virtual Class	24 Hours	MR-1LN-VMVRASSCDM84
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[VMware vRealize Automation: Advanced Features and Troubleshooting \[V8.x\] - Virtual](#)

This five-day course is a follow-on to the VMware vRealize® Automation™ Install, Configure, Manage course. In this course you go deeper into the advanced features of vRealize Automation to deploy user systems and interface vRealize Automation with other platforms and you learn how to deploy an enterprise-level cluster environment using LCM. This course relies heavily on hands-on labs.

Virtual Class	40 Hours	MR-1LN-VMVRAAFT8
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[VMware vRealize Automation: Design and Deploy \[V7.6\]](#)

This five-day course focuses on designing and deploying an enterprise cloud by using a distributed architecture deployment of VMware vRealize® Automation™. This course discusses the benefits and risks of available design alternatives and provides information that helps in making sound design decisions. You follow a proven approach to design and deploy an enterprise cloud that is available, scalable, manageable, secure, and that is built according to VMware best practices. During this class, you apply your new knowledge by working with other participants to design and deploy a vRealize Automation solution for a real-world project.

Classroom	40 Hours	MR-1CN-VMVRADD76
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[VMware vRealize Automation: Design and Deploy \[V7.6\] - Virtual Class](#)

This five-day course focuses on designing and deploying an enterprise cloud by using a distributed architecture deployment of VMware vRealize® Automation™. This course discusses the benefits and risks of available design alternatives and provides information that helps in making sound design decisions. You follow a proven approach to design and deploy an enterprise cloud that is available, scalable, manageable, secure, and that is built according to VMware best practices. During this class, you apply your new knowledge by working with other participants to design and deploy a vRealize Automation solution for a real-world project.

Virtual Class	40 Hours	MR-1LN-VMVRADD76
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[VMware vRealize Automation: Install, Configure, Manage \[V7.6\] - Virtual Classroom](#)

During this five-day course, you focus on installing, configuring, and managing VMware vRealize Automation. You learn about the configuration and use of the vRealize Automation platform, including self-service provisioning and the creation of catalog services that include predefined virtual machines, software components, and on-demand VMware NSX networks. This course also covers interfacing vRealize Automation with other systems using VMware vRealize Orchestrator to leverage workflows, creating approval cycles, and managing machine life-cycles to conserve resources. In addition, you will better understand and know how to achieve the benefits of automation as a component of the software defined data center.

Virtual Class	40 Hours	MR-1LN-VMRAICV7.6
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[VMware vRealize Automation: Install, Configure, Manage \[V8.3\] - Virtual Class](#)

During this five-day course, you focus on installing, configuring, and managing VMware vRealize® Automation™. You learn about how vRealize Automation can be used to automate the delivery of virtual machines, applications, and personalized IT services across different data centers and hybrid cloud environments. The course covers how to manage both on-premise systems and cloud services. The course covers how vRealize Automation Service Broker can aggregate content in native formats from multiple clouds and platforms into a common catalog. This course also covers interfacing vRealize Automation with other systems using VMware vRealize® Orchestrator™ and how to use vRealize Automation to manage Kubernetes systems and leverage other systems. The course also covers integrating with Terraform and using SaltStack as a configuration management tool. This course makes heavy use of hands-on labs. Students can run 39 labs during the 5-day course.

Virtual Class	40 Hours	MR-1LN-VMVRAICM83
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[VMware vRealize Automation: Orchestration and Extensibility \[V7.6\] - Virtual Classroom](#)

During this five-day course, you focus on using VMware vRealize® Orchestrator™ to extend the functionality of VMware vRealize® Automation™. You learn how to provide XaaS (Anything as a Service) and implement Machine Lifecycle Extensibility using the vRealize Automation Event Broker. You also learn how to create vRealize Orchestrator workflows. Features include basic scripting implementation along with logic processing to implement a variety of functions to use in your environment. This course teaches implementing debugging, loops, conditions, and user interactions in vRealize Orchestrator. The course introduces the new vRealize Orchestrator HTML 5 interface, along with API calls and REST functions, to give the groundwork to implement a variety of plugins and scripts. This course was designed to give you the tools to craft custom solutions in the product.

Virtual Class	40 Hours	MR-1LN-VMRAOEV76
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[VMware vRealize Automation: Orchestration and Extensibility \[V8.1\]](#)

During this five-day course, you focus on using VMware vRealize® Orchestrator™ to extend the functionality of VMware vRealize® Automation™. You learn how to provide XaaS (Anything as a Service) and implement Machine Lifecycle Extensibility using the VMware vRealize® Automation™ Event Broker. You also learn how to create vRealize Orchestrator workflows. Features covered in the course include basic scripting implementation along with logic processing to implement a variety of functions to use in your environment. This course teaches implementing debugging, loops, conditions, and user interactions in vRealize Orchestrator. The course introduces the new vRealize Orchestrator HTML 5 interface, along with API calls and REST functions, to give the groundwork to implement a variety of plugins and scripts. This course is designed to give you the tools to craft custom solutions in the product.

Classroom		MR-1CN-VMVRAOE81
Elearning (DO NOT USE)	40 Hours	MR-1CN-VMVRAOE81

[VMware vRealize Automation: Orchestration and Extensibility V8.1 - Virtual](#)

During this five-day course, you focus on using VMware vRealize® Orchestrator™ to extend the functionality of VMware vRealize® Automation™. You learn how to provide XaaS (Anything as a Service) and implement Machine Lifecycle Extensibility using the VMware vRealize® Automation™ Event Broker. You also learn how to create vRealize Orchestrator workflows. Features covered in the course include basic scripting implementation along with logic processing to implement a variety of functions to use in your environment. This course teaches implementing debugging, loops, conditions, and user interactions in vRealize Orchestrator. The course introduces the new vRealize Orchestrator HTML 5 interface, along with API calls and REST functions, to give the groundwork to implement a variety of plugins and scripts. This course is designed to give you the tools to craft custom solutions in the product.

Virtual Class	40 Hours	MR-1LN-VMVRAOE81
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[VMware vRealize Log Insight: Deploy and Manage \[V4.7\] - Online ILT](#)

In this two-day course, you focus on deploying, using, and managing VMware vRealize Log Insight. You learn about the configuration and use of vRealize Log Insight to collect and manage logs from a variety of VMware and third-party products. This course discusses interfacing vRealize Log Insight with other systems to monitor, troubleshoot, and secure a data center.

Virtual Class	16 Hours	MR-1LN-VMVRLIDM47
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[VMware vRealize Log Insight: Deploy and Manage \[V8.4\]](#)

This two-day course focuses on deploying, using and managing VMware vRealize® Log Insight™ product. It provides you with the knowledge and skills to deploy a vRealize Log Insight cluster that meets the monitoring requirements of your environment. You learn about the configuration and use of vRealize Log Insight to collect and manage logs from a variety of VMware and third-party products. This course discusses interfacing vRealize Log Insight with other systems to monitor, troubleshoot, and secure a data center.

Classroom	16 Hours	MR-1CN-VMVRLIDM84
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[VMware vRealize Log Insight: Deploy and Manage \[V8.4\] - Virtual Class](#)

This two-day course focuses on deploying, using and managing VMware vRealize® Log Insight™ product. It provides you with the knowledge and skills to deploy a vRealize Log Insight cluster that meets the monitoring requirements of your environment. You learn about the configuration and use of vRealize Log Insight to collect and manage logs from a variety of VMware and third-party products. This course discusses interfacing vRealize Log Insight with other systems to monitor, troubleshoot, and secure a data center.

Virtual Class	16 Hours	MR-1LN-VMVRLIDM84
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[VMware vRealize Network Insight: Install, Configure, Manage \[V6.0\]](#)

This two-day, hands-on course gives you the skills to deploy and use VMware vRealize® Network Insight™ to ensure an optimized, highly available, and secure infrastructure for your applications. You will learn the features, components, architecture, and benefits of vRealize Network Insight and how to use it to simplify daily operation and troubleshooting tasks.

Classroom	16 Hours	MR-1CN-VMVRNIICM6
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[VMware vRealize Network Insight: Install, Configure, Manage \[V6.0\] - Virtual Class](#)

This two-day, hands-on course gives you the skills to deploy and use VMware vRealize® Network Insight™ to ensure an optimized, highly available, and secure infrastructure for your applications. You will learn the features, components, architecture, and benefits of vRealize Network Insight and how to use it to simplify daily operation and troubleshooting tasks.

Virtual Class	16 Hours	MR-1LN-VMVRNIICM6
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[VMware vRealize Network Insight: Install, Configure, Manage \[V6.1\]](#)

This two-day, hands-on course gives you the skills to deploy and use VMware vRealize® Network Insight™ to ensure an optimized, highly available, and secure infrastructure for your applications. You will learn the features, components, architecture, and benefits of vRealize Network Insight and how to use it to simplify daily operation and troubleshooting tasks.

Classroom	16 Hours	MR-1CN-VMVRNIICM61
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[VMware vRealize Network Insight: Install, Configure, Manage \[V6.1\] - Virtual Class](#)

This two-day, hands-on course gives you the skills to deploy and use VMware vRealize® Network Insight™ to ensure an optimized, highly available, and secure infrastructure for your applications. You will learn the features, components, architecture, and benefits of vRealize Network Insight and how to use it to simplify daily operation and troubleshooting tasks.

Virtual Class	16 Hours	MR-1LN-VMVRNIICM61
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[VMware vRealize Operations for Administrators \[V7.0\] - Online ILT](#)

This two-day course is designed for data center administrators who are responsible for the day-to-day management of a VMware vSphere environment using VMware vRealize Operations. This course will teach you how to use vRealize Operations as a forensic and predictive tool. The course is based on VMware ESXi 6.7, VMware vCenter Server 6.7, and vRealize Operations 7.0. Note: If you have taken the VMware vRealize Operations: Install, Configure, Manage course, duplicate content makes this course unsuitable for you.

Virtual Class	16 Hours	MR-1LN-VMVROAV7.0
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[VMware vRealize Operations for Operators \[V8.2\]](#)

Classroom	16 Hours	MR-1CN-VMVROPSOP82
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[VMware vRealize Operations for Operators \[V8.2\] - Virtual Class](#)

Virtual Class	16 Hours	MR-1LN-VMVROPSOP82
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[VMware vRealize Operations: Advanced Use Cases \[v8.x\]](#)

Virtual Class	16 Hours	MR-1LN-VMVROAUC8
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[VMware vRealize Operations: Day 2 Operations with Cloud \[V8.2\]](#)

This four-day course is for users of the both VMware vRealize® Operations™ on-prem and cloud versions. The course includes how to use advanced capabilities like customizing alerts, views, reports, and dashboards, and it explains the architecture in vRealize Operations. This course explains certificates, capacity concepts, and workload optimization with real-world use cases. This course covers troubleshooting using dashboards and how to manage compliance and configurations. This course also covers several management packs and introduces VMware vRealize® Operations Cloud™. In general, this course explains how to use and configure most of the new features and enhancements in version 8.1 and 8.2.

Classroom	32 Hours	MR-1CN-VMVROD2OC82
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[VMware vRealize Operations: Day 2 Operations with Cloud \[V8.2\] - Virtual Class](#)

This four-day course is for users of the both VMware vRealize® Operations™ on-prem and cloud versions. The course includes how to use advanced capabilities like customizing alerts, views, reports, and dashboards, and it explains the architecture in vRealize Operations. This course explains certificates, capacity concepts, and workload optimization with real-world use cases. This course covers troubleshooting using dashboards and how to manage compliance and configurations. This course also covers several management packs and introduces VMware vRealize® Operations Cloud™. In general, this course explains how to use and configure most of the new features and enhancements in version 8.1 and 8.2.

Virtual Class	32 Hours	MR-1LN-VMVROD2OC82
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[VMware vRealize Operations: Install, Configure, Manage \[V7\] - Online ILT](#)

This five-day course, designed for experienced VMware vSphere users, teaches you how to use VMware vRealize Operations as a forensic and predictive tool. Based on VMware ESXi 6.7, VMware vCenter Server 6.7, and vRealize Operations 7.0, this course includes instruction on advanced capabilities, including customization and management.

Virtual Class	40 Hours	MR-1LN-VMVROICM7
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[VMware vRealize Operations: Install, Configure, Manage \[V8.2\]](#)

This five-day course is for users of both cloud and on-premises versions of the VMware vRealize® Operations™ product. It provides you with the knowledge and skills to deploy a vRealize Operations cluster that meets the monitoring requirements of your environment. This course includes advanced capabilities like customizing alerts, views, reports, and dashboards and explains the architecture in vRealize Operations. This course explains certificates, capacity and cost concepts, and workload optimization with real-world use cases. This course covers troubleshooting using workbench, alerts, and Predefined dashboards and how to manage compliance and configurations. This course also covers several management packs, and it introduces VMware vRealize® Operations Cloud™. In general, this course explains how to use and configure most of the new features and enhancements in version 8.1 and 8.2.

Classroom	40 Hours	MR-1CN-VMVROD2OC82
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[VMware vRealize Operations: Install, Configure, Manage \[V8.2\] - Virtual Class](#)

This five-day course is for users of both cloud and on-premises versions of the VMware vRealize® Operations™ product. It provides you with the knowledge and skills to deploy a vRealize Operations cluster that meets the monitoring requirements of your environment. This course includes advanced capabilities like customizing alerts, views, reports, and dashboards and explains the architecture in vRealize Operations. This course explains certificates, capacity and cost concepts, and workload optimization with real-world use cases. This course covers troubleshooting using workbench, alerts, and Predefined dashboards and how to manage compliance and configurations. This course also covers several management packs, and it introduces VMware vRealize® Operations Cloud™. In general, this course explains how to use and configure most of the new features and enhancements in version 8.1 and 8.2.

Virtual Class	40 Hours	MR-1LN-VMVROD2OC82
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[VMware vRealize Operations: Install, Configure, Manage \[V8\]](#)

This five-day course includes instruction on advanced capabilities, including customization and management, and explains the architecture of VMware vRealize® and different ways of deploying vRealize operations. This course explains certificates, capacity concepts, and workload optimization with real-world use cases. This course covers troubleshooting using dashboards and how to manage configurations. This course also covers management packs such as those for or in the SDDC Management Health solution, VMware vRealize® Service Discovery™ Management Pack, and VMware vRealize® Orchestrator™. In general, this course explains how to use and configure most of the new features and enhancements in version 8.0.

Classroom	40 Hours	MR-1CN-VMVROICM8
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[VMware vRealize Operations: Install, Configure, Manage \[V8\] - Virtual Classroom](#)

This five-day course includes instruction on advanced capabilities, including customization and management, and explains the architecture of VMware vRealize® and different ways of deploying vRealize operations. This course explains certificates, capacity concepts, and workload optimization with real-world use cases. This course covers troubleshooting using dashboards and how to manage configurations. This course also covers management packs such as those for or in the SDDC Management Health solution, VMware vRealize® Service Discovery™ Management Pack, and VMware vRealize® Orchestrator™. In general, this course explains how to use and configure most of the new features and enhancements in version 8.0.

Virtual Class	40 Hours	MR-1LN-VMVROICM8
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[VMware vRealize Suite Lifecycle Manager: Install Configure Manage \[V8.0\] - Virtual Class](#)

This two-day course features hands-on training that focuses on installing, configuring, and managing VMware vRealize® Suite Lifecycle Manager™, which includes products such as VMware vRealize® Operations™, VMware vRealize® LogInsight™, and VMware vRealize® Automation™. This course prepares you to administer a vRealize infrastructure for an organization.

Virtual Class	16 Hours	MR-1LN-VMVRLMICM8
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[VMware vSAN: Deploy and Manage \[V6.7\]](#)

In this three-day course, you focus on deploying and managing a software-defined storage solution with VMware vSAN™ 6.7. You learn how vSAN functions as an important component in the VMware software-defined data center. You gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

Virtual Class	24 Hours	MR-1LN-VMVSANDM67
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[VMware vSAN: Deploy and Manage 6.7](#)

In this three-day course, you focus on deploying and managing a software-defined storage solution with VMware vSAN 6.7. You learn how vSAN functions as an important component in the VMware software-defined data center. You gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

Classroom	24 Hours	MR-1CN-VMVSDD6.7
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[VMware vSAN: Deploy and Manage 6.7 - Online ILT](#)

In this three-day course, you focus on deploying and managing a software-defined storage solution with VMware vSAN 6.7. You learn how vSAN functions as an important component in the VMware software-defined data center. You gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

Virtual Class	24 Hours	MR-1LN-VMVSDD6.7
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[VMware vSAN: Fast Track \[V7\]](#)

During this five-day, intensive course, you gain the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. You learn about managing and operating vSAN. This course focuses on building the required skills for common Day-2 vSAN administrator tasks such as vSAN node management, cluster maintenance, security operations, and advanced vSAN cluster operations. You also focus on learning the tools and skills necessary to troubleshoot vSAN 7 implementations and gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises. This course is a combination of the following courses: VMware vSAN: Plan and Deploy, VMware vSAN: Management and Operations, and VMware vSAN: Troubleshooting.

Classroom	50 Hours	MR-1CN-VMVSANFT7
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[VMware vSAN: Fast Track \[V7\] - Virtual Class](#)

During this five-day, intensive course, you gain the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. You learn about managing and operating vSAN. This course focuses on building the required skills for common Day-2 vSAN administrator tasks such as vSAN node management, cluster maintenance, security operations, and advanced vSAN cluster operations. You also focus on learning the tools and skills necessary to troubleshoot vSAN 7 implementations and gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises. This course is a combination of the following courses: VMware vSAN: Plan and Deploy, VMware vSAN: Management and Operations, and VMware vSAN: Troubleshooting.

Virtual Class	50 Hours	MR-1LN-VMVSANFT7
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[VMware vSAN: Management and Operations \[V7\]](#)

In this three-day course, you learn about managing and operating VMware vSAN™ 7. This course focuses on building the required skills for common Day-2 vSAN administrator tasks such as, vSAN node management, cluster maintenance, security operations and advanced vSAN cluster operations. You also gain practical experience through the completion of instructor-led activities and hands-on lab exercises.

Classroom	24 Hours	MR-1CN-VMVSANMO7
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[VMware vSAN: Management and Operations \[V7\] - Virtual](#)

In this three-day course, you learn about managing and operating VMware vSAN™ 7. This course focuses on building the required skills for common Day-2 vSAN administrator tasks such as, vSAN node management, cluster maintenance, security operations and advanced vSAN cluster operations. You also gain practical experience through the completion of instructor-led activities and hands-on lab exercises.

Virtual Class	24 Hours	MR-1LN-VMVSANMO7
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[VMware vSAN: Plan and Deploy \[V7\]](#)

This two-day, hands-on training course provides you with the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. In this course, you are taught the many considerations that the end vSAN configuration has on the initial planning of the vSAN datastore. You also perform a fully manual configuration of a vSAN cluster.

Classroom	16 Hours	MR-1CN-VMVSANPD7
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[VMware vSAN: Plan and Deploy \[V7\] - Virtual Class](#)

This two-day, hands-on training course provides you with the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. In this course, you are taught the many considerations that the end vSAN configuration has on the initial planning of the vSAN datastore. You also perform a fully manual configuration of a vSAN cluster.

Virtual Class	16 Hours	MR-1LN-VMVSANPD7
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[VMware vSAN: Production Operations \[V6.7\]](#)

In this two-day course, you focus on building skills in configuring and performing common Day 2 administrator and end-user tasks with VMware vSAN 6.7. You gain practical experience with vSAN production operations through the completion of instructor-led activities and hands-on lab exercises.

Classroom	16 Hours	MR-1CN-VMVSPO6.7
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[VMware vSAN: Production Operations \[V6.7\] - Online ILT](#)

In this two-day course, you focus on building skills in configuring and performing common Day 2 administrator and end-user tasks with VMware vSAN 6.7. You gain practical experience with vSAN production operations through the completion of instructor-led activities and hands-on lab exercises.

Virtual Class	16 Hours	MR-1LN-VMVSPO6.7
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[VMware vSAN: Troubleshooting \[V7\]](#)

In this two-day course, you focus on learning the tools and skills necessary to troubleshoot VMware vSAN™ 7 implementations. You gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises.

Classroom	16 Hours	MR-1CN-VMVSANT7
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[VMware vSAN: Troubleshooting \[V7\] - Virtual Class](#)

In this two-day course, you focus on learning the tools and skills necessary to troubleshoot VMware vSAN™ 7 implementations. You gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises.

Virtual Class	16 Hours	MR-1LN-VMVSANT7
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[VMware vSphere Advanced Troubleshooting Workshop \[V6.7\] - Online ILT](#)

This five-day, intensive hands-on training workshop provides you with advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere 6.7 environment. This workshop is aimed at experienced system administrators and introduces methods and skills that use management command-line interfaces (CLIs) and VMware vSphere Client™. This workshop focuses on investigating and resolving problems, analyzing log files to help you recognize log file entries that identify root causes, and configuring specific key vSphere features.

Virtual Class	40 Hours	MR-1LN-VMVATWS67
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[VMware vSphere on Kubernetes: Deploy and Manage \[V7\]](#)

During this 3-day course, you focus on deploying and managing VMware vSphere® with Kubernetes. You learn about how vSphere with Kubernetes can be used to orchestrate the delivery of Kubernetes clusters and containerized applications in a vSphere environment.

Classroom	24 Hours	MR-1CN-VMVSKDM7
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[VMware vSphere on Kubernetes: Deploy and Manage \[V7\] - Virtual Class](#)

During this 3-day course, you focus on deploying and managing VMware vSphere® with Kubernetes. You learn about how vSphere with Kubernetes can be used to orchestrate the delivery of Kubernetes clusters and containerized applications in a vSphere environment.

Virtual Class	24 Hours	MR-1LN-VMVSKDM7
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[VMware vSphere with Tanzu: Deploy and Manage \[V7\]](#)

During this 3-day course, you focus on deploying and managing VMware vSphere® with Tanzu. You learn about how vSphere with Tanzu can be used to orchestrate the delivery of Kubernetes clusters and containerized applications in a vSphere environment.

Classroom	24 Hours	MR-1CN-VMVTDM7
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[VMware vSphere with Tanzu: Deploy and Manage \[V7\] - Virtual Class](#)

During this 3-day course, you focus on deploying and managing VMware vSphere® with Tanzu. You learn about how vSphere with Tanzu can be used to orchestrate the delivery of Kubernetes clusters and containerized applications in a vSphere environment.

Virtual Class	24 Hours	MR-1LN-VMVTDM7
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[VMware vSphere: Advanced Administration Workshop \[V7\]](#)

This five-day course provides hands-on training to equip students with a range of skills, from performing routine VMware vSphere® 7 administrative tasks to complex vSphere operations and configurations. Through lab-based activities, students are immersed in real-life situations faced by VMBeans, a fictitious company. These situations expose students to real-life scenarios faced by companies that are building and scaling their virtual infrastructure. Approximately 90% of the class is application-focused and taught through labs. The course aligns fully with the VMware Certified Advanced Professional – Data Center Virtualization Deploy exam objectives.

Classroom	40 Hours	MR-1CN-VMVSAAW7
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[VMware vSphere: Advanced Administration Workshop \[V7\] - Virtual Class](#)

This five-day course provides hands-on training to equip students with a range of skills, from performing routine VMware vSphere® 7 administrative tasks to complex vSphere operations and configurations. Through lab-based activities, students are immersed in real-life situations faced by VMBeans, a fictitious company. These situations expose students to real-life scenarios faced by companies that are building and scaling their virtual infrastructure. Approximately 90% of the class is application-focused and taught through labs. The course aligns fully with the VMware Certified Advanced Professional – Data Center Virtualization Deploy exam objectives.

Virtual Class	40 Hours	MR-1LN-VMVSAAW7
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[VMware vSphere: Design \[V7\]](#)

This three-day training course equips you with the knowledge, skills, and abilities to design a VMware vSphere® 7 virtual infrastructure. You follow a proven approach to design a virtualization solution that ensures availability, manageability, performance, recoverability, and security, and that uses VMware best practices. This course discusses the benefits and risks of available design alternatives and provides information to support making sound design decisions. Given a case study, you practice your design skills by working with peers on a design project.

Classroom	24 Hours	MR-1CN-VMVSD7
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[VMware vSphere: Design \[V7\] - Virtual Class](#)

This three-day training course equips you with the knowledge, skills, and abilities to design a VMware vSphere® 7 virtual infrastructure. You follow a proven approach to design a virtualization solution that ensures availability, manageability, performance, recoverability, and security, and that uses VMware best practices. This course discusses the benefits and risks of available design alternatives and provides information to support making sound design decisions. Given a case study, you practice your design skills by working with peers on a design project.

Virtual Class	24 Hours	MR-1LN-VMVSD7
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[VMware vSphere: Fast Track \[v6.7\] - Online ILT](#)

This five-day, intensive course takes you from introductory to advanced VMware vSphere management skills. Building on the installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure and manage vSphere 6.7. You will explore the features that build a foundation for a truly scalable infrastructure, and discuss when and where these features have the greatest effect. This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 6.7, which includes VMware ESXi 6.7 and VMware vCenter Server 6.7.

Virtual Class	50 Hours	MR-1LN-VMVSFT67
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[VMware vSphere: Fast Track \[V7\]](#)

This five-day, intensive course takes you from introductory to advanced VMware vSphere® 7 management skills. Building on the installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure and manage vSphere 7. You will explore the features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect. This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7.

Classroom	50 Hours	MR-1CN-VMVSFT7
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[VMware vSphere: Fast Track \[V7\] - Virtual Class](#)

This five-day, intensive course takes you from introductory to advanced VMware vSphere® 7 management skills. Building on the installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure and manage vSphere 7. You will explore the features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect. This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7.

Virtual Class	50 Hours	MR-1LN-VMVSFT7
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[VMware vSphere: Install, Configure, Manage \[V7\]](#)

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7. This course prepares you to administer a vSphere infrastructure for an organization of any size. This course is the foundation for most of the other VMware technologies in the software-defined data center.

Classroom	40 Hours	MR-1CN-VMVICM7
Virtual Class		MR-1CN-VMVICM7

[VMware vSphere: Install, Configure, Manage \[V7\] - Virtual Class](#)

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7. This course prepares you to administer a vSphere infrastructure for an organization of any size. This course is the foundation for most of the other VMware technologies in the software-defined data center.

Virtual Class	40 Hours	MR-1LN-VMVICM7
Classroom		MR-1LN-VMVICM7

[VMware vSphere: Instructor Certification Workshop \[V7.x\] - Virtual Class](#)

Virtual Class	40 Hours	MR-1LN-VMVICW7
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[VMware vSphere: Optimize and Scale \[V6.7\]](#)

This five-day course teaches you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you configure and optimize the VMware vSphere® 6.7 features that build a foundation for a truly scalable infrastructure, and you discuss when and where these features have the greatest effect. This course deepens your understanding of vSphere and how its advanced features and controls can benefit your organization.

Classroom	40 Hours	MR-1CN-VMVSOSV6.7
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[VMware vSphere: Optimize and Scale \[V7\]](#)

This five-day course teaches you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you configure and optimize the VMware vSphere® 7 features that build a foundation for a truly scalable infrastructure, and you discuss when and where these features have the greatest effect. Attend this course to deepen your understanding of vSphere and learn how its advanced features and controls can benefit your organization.

Classroom	40 Hours	MR-1CN-VMVSOS7
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[VMware vSphere: Optimize and Scale \[V7\] - Virtual Class](#)

This five-day course teaches you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you configure and optimize the VMware vSphere® 7 features that build a foundation for a truly scalable infrastructure, and you discuss when and where these features have the greatest effect. Attend this course to deepen your understanding of vSphere and learn how its advanced features and controls can benefit your organization.

Virtual Class	40 Hours	MR-1LN-VMVSOS7
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[VMware vSphere: Optimize and Scale plus Troubleshooting Fast Track \[V7\] - Virtual Classroom](#)

This five-day, accelerated, hands-on training course is a blend of the VMware vSphere: Optimize and Scale and VMware vSphere: Troubleshooting courses. This Fast Track course includes topics from each of these advanced courses to equip experienced VMware administrators with the knowledge and skills to effectively optimize and troubleshoot vSphere at an expert level.

Virtual Class	40 Hours	MR-1LN-VMVOSTFT7
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[VMware vSphere: Practitioner Workshop \[V6.7\] - Online ILT](#)

In this three-day workshop, students perform various tasks that a system administrator performs on a regular basis. These tasks include updating and upgrading an existing basic VMware vSphere environment and troubleshooting common problems. Students apply the concepts learned during the VMware vSphere: Install, Configure, Manage [V6.7] course while they increase their skill and competence.

Virtual Class	24 Hours	MR-1LN-VMVLCMWS67
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[VMware vSphere: Troubleshooting \[V7\]](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 7.x environment. This workshop increases your skill and competence in using the command-line interface, VMware vSphere® Client™, log files, and other tools to analyze and solve problems.

Classroom	40 Hours	MR-1CN-VMVST57
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[VMware vSphere: Troubleshooting \[V7\] - Virtual Class](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 7.x environment. This workshop increases your skill and competence in using the command-line interface, VMware vSphere® Client™, log files, and other tools to analyze and solve problems.

Virtual Class	40 Hours	MR-1LN-VMVST57
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[VMware vSphere: What's New \[V6.7 to V7\] - Classroom](#)

In this three-day, hands-on training course, you explore the new features and enhancements in VMware vCenter Server® 7 and VMware ESXi™ 7. Real-world use-case deployment scenarios, hands-on lab exercises, and lectures teach you the skills that you need to effectively implement and configure VMware vSphere® 7. This course is recommended for customers who want to deploy vSphere 7 in their existing vSphere environment.

Classroom	24 Hours	MR-1CN-VMVSWN7
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[VMware vSphere: What's New \[V6.7 to V7\] - Virtual Class](#)

In this three-day, hands-on training course, you explore the new features and enhancements in VMware vCenter Server® 7 and VMware ESXi™ 7. Real-world use-case deployment scenarios, hands-on lab exercises, and lectures teach you the skills that you need to effectively implement and configure VMware vSphere® 7. This course is recommended for customers who want to deploy vSphere 7 in their existing vSphere environment.

Virtual Class	24 Hours	MR-1LN-VMVSWN7
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[VMware Workspace ONE: Advanced Integration \[V21.x\]](#)

In this five-day course, you build on the foundations learned in VMware Workspace ONE: Deploy & Manage [21.x] to accelerate the advancement of your deployment and management systems with VMware Workspace ONE® UEM and VMware Workspace ONE® Access™. Through a series of hands-on labs, simulations, and interactive lectures, you effectively evaluate your organization's current practices and discover opportunities to target improvements in identity, authentication, and access management. Additionally, you learn the strategies and techniques necessary to construct an integrated management strategy, utilizing a comprehensive set of VMware Workspace ONE® services, including Hub Services, the Unified Catalog, Intelligence, and the API.

Classroom	40 Hours	MR-1CN-VMWS1AI21
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[VMware Workspace ONE: Advanced Integration \[V21.x\] - Virtual Class](#)

In this five-day course, you build on the foundations learned in VMware Workspace ONE: Deploy & Manage [21.x] to accelerate the advancement of your deployment and management systems with VMware Workspace ONE® UEM and VMware Workspace ONE® Access™. Through a series of hands-on labs, simulations, and interactive lectures, you effectively evaluate your organization's current practices and discover opportunities to target improvements in identity, authentication, and access management. Additionally, you learn the strategies and techniques necessary to construct an integrated management strategy, utilizing a comprehensive set of VMware Workspace ONE® services, including Hub Services, the Unified Catalog, Intelligence, and the API.

Virtual Class	40 Hours	MR-1LN-VMWS1AI21
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[VMware Workspace ONE: Deploy and Manage \[V21.x\]](#)

In this five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with VMware Workspace ONE® UEM. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint lifecycle. After the course, you will have the foundational knowledge for effectively implementing Workspace ONE UEM. Also, you learn how to apply the fundamental techniques for integrating VMware Workspace ONE® Access™ with Workspace ONE UEM to securely distribute business-critical applications from any device and to configure access management controls. Through a combination of hands-on labs, simulations, and interactive lectures, you configure Workspace ONE Access, enterprise, and productivity integrations. You will leave with a foundational understanding of how Workspace ONE uses various authentication methods and protocols to determine user access permissions and enable single sign-on. Overall, the course l

Classroom	40 Hours	MR-1CN-VMWS1DM21X
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[VMware Workspace ONE: Deploy and Manage \[V21.x\] - Virtual Class](#)

In this five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with VMware Workspace ONE® UEM. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint lifecycle. After the course, you will have the foundational knowledge for effectively implementing Workspace ONE UEM. Also, you learn how to apply the fundamental techniques for integrating VMware Workspace ONE® Access™ with Workspace ONE UEM to securely distribute business-critical applications from any device and to configure access management controls. Through a combination of hands-on labs, simulations, and interactive lectures, you configure Workspace ONE Access, enterprise, and productivity integrations. You will leave with a foundational understanding of how Workspace ONE uses various authentication methods and protocols to determine user access permissions and enable single sign-on. Overall, the course l

Virtual Class	40 Hours	MR-1LN-VMWS1DM21X
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[VMware Workspace ONE: Deploy and Manage plus UEM Troubleshooting Fast Track \[V21.x\]](#)

In this extended five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with Workspace ONE UEM. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint lifecycle. You will have the foundational knowledge for effectively implementing Workspace ONE UEM. Also, you learn how to apply the fundamental techniques for integrating VMware Workspace ONE® Access™ with Workspace ONE UEM to distribute business-critical applications from any device securely and configure access management controls. Through a combination of hands-on labs, simulations, and interactive lectures, you configure Workspace ONE Access, enterprise, and productivity integrations. You will leave with a foundational understanding of how Workspace ONE uses various authentication methods and protocols to determine user access permissions and enable single sign-on. You learn the foundational principles of identity

Classroom	50 Hours	MR-1CN-VMWS1DMUEMT21
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[VMware Workspace ONE: Deploy and Manage plus UEM Troubleshooting Fast Track \[V21.x\] - Virtual Class](#)

In this extended five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with Workspace ONE UEM. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint lifecycle. You will have the foundational knowledge for effectively implementing Workspace ONE UEM. Also, you learn how to apply the fundamental techniques for integrating VMware Workspace ONE® Access™ with Workspace ONE UEM to distribute business-critical applications from any device securely and configure access management controls. Through a combination of hands-on labs, simulations, and interactive lectures, you configure Workspace ONE Access, enterprise, and productivity integrations. You will leave with a foundational understanding of how Workspace ONE uses various authentication methods and protocols to determine user access permissions and enable single sign-on. You learn the foundational principles of identity

Virtual Class	50 Hours	MR-1LN-VMWS1DMUEMT21
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[VMware Workspace ONE: Integrating Access with UEM \[21.x\]](#)

In this two-day course, you learn how to apply the fundamental techniques for integrating VMware Workspace ONE® Access™ with VMware Workspace ONE® UEM to securely distribute business-critical applications from any device and configure access management controls. Through a combination of hands-on labs, simulations, and interactive lectures, you configure Workspace ONE Access, enterprise, and productivity integrations. You will leave with a foundational understanding of how Workspace ONE uses various authentication methods and protocols to determine user access permissions and enable single sign-on. Overall, the course lays out the foundational principles of identity and access management.

Classroom	16 Hours	MR-1CN-VMWS11DW21
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[VMware Workspace ONE: Integrating Access with UEM \[21.x\] - Virtual Class](#)

In this two-day course, you learn how to apply the fundamental techniques for integrating VMware Workspace ONE® Access™ with VMware Workspace ONE® UEM to securely distribute business-critical applications from any device and configure access management controls. Through a combination of hands-on labs, simulations, and interactive lectures, you configure Workspace ONE Access, enterprise, and productivity integrations. You will leave with a foundational understanding of how Workspace ONE uses various authentication methods and protocols to determine user access permissions and enable single sign-on. Overall, the course lays out the foundational principles of identity and access management.

Virtual Class	16 Hours	MR-1LN-VMWS11DW21
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[VMware Workspace ONE: Modern Management for Windows 10 \[V21.x\]](#)

In this two-day course, you learn the fundamental techniques for implementing a modern Windows 10 management solution with VMware Workspace ONE®. Through a combination of hands-on labs, simulations, and interactive lectures, you investigate various methods for onboarding, securing, enabling, and maintaining Windows 10 with Workspace ONE. Through a detailed evaluation of your options, you will establish the foundation of a modern management strategy that fits your organization's needs.

Classroom	16 Hours	MR-1CN-VMWS1MMW21
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[VMware Workspace ONE: Modern Management for Windows 10 \[V21.x\] - Virtual Class](#)

In this two-day course, you learn the fundamental techniques for implementing a modern Windows 10 management solution with VMware Workspace ONE®. Through a combination of hands-on labs, simulations, and interactive lectures, you investigate various methods for onboarding, securing, enabling, and maintaining Windows 10 with Workspace ONE. Through a detailed evaluation of your options, you will establish the foundation of a modern management strategy that fits your organization's needs.

Virtual Class	16 Hours	MR-1LN-VMWS1MMW21
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[VMware Workspace ONE: Skills for UEM \[21.x\]](#)

In this three-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with VMware Workspace ONE®. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint life cycle. After the three days, you will have the foundational knowledge for effectively implementing VMware Workspace ONE® UEM.

Classroom	24 Hours	MR-1CN-VMWS1SUEM21
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[VMware Workspace ONE: Skills for UEM \[21.x\] - Virtual Class](#)

In this three-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with VMware Workspace ONE®. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint life cycle. After the three days, you will have the foundational knowledge for effectively implementing VMware Workspace ONE® UEM.

Virtual Class	24 Hours	MR-1LN-VMWS1SUEM21
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[VMware Workspace ONE: Skills for UEM plus Modern Management for Windows 10 \[V21.x\]](#)

In this five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution and a modern Windows 10 management solution with VMware Workspace ONE®. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint life cycle. You will investigate various methods for onboarding, securing, enabling, and maintaining Windows 10 with Workspace ONE. After the five days, you will have the foundational knowledge for effectively implementing VMware Workspace ONE® UEM and establishing the foundation of a modern management strategy.

Classroom	40 Hours	MR-1CN-VMWS1SUEMMW21
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[VMware Workspace ONE: Skills for UEM plus Modern Management for Windows 10 \[V21.x\] - Virtual Class](#)

In this five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution and a modern Windows 10 management solution with VMware Workspace ONE®. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint life cycle. You will investigate various methods for onboarding, securing, enabling, and maintaining Windows 10 with Workspace ONE. After the five days, you will have the foundational knowledge for effectively implementing VMware Workspace ONE® UEM and establishing the foundation of a modern management strategy.

Virtual Class	40 Hours	MR-1LN-VMWS1SUEMMW21
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[VMware Workspace ONE: UEM Bootcamp \[21.x\]](#)

In this five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with VMware Workspace ONE® UEM. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint lifecycle. You will also learn to investigate, analyze, and determine issues that might occur with all the different components of Workspace ONE UEM. Understanding how to effectively troubleshoot product issues enables administrators to understand how product services communicate and function, optimizing service and software health management. After the five days, you will have the foundational knowledge for effectively managing and conducting basic troubleshooting for Workspace ONE UEM.

Classroom	40 Hours	MR-1CN-VMWS1UEMBC21
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[VMware Workspace ONE: UEM Bootcamp \[21.x\] - Virtual Class](#)

In this five-day course, you learn how to apply the fundamental techniques for launching and maintaining an intelligence-driven, multi-platform endpoint management solution with VMware Workspace ONE® UEM. Through a combination of hands-on labs, simulations, and interactive lectures, you will configure and manage the endpoint lifecycle. You will also learn to investigate, analyze, and determine issues that might occur with all the different components of Workspace ONE UEM. Understanding how to effectively troubleshoot product issues enables administrators to understand how product services communicate and function, optimizing service and software health management. After the five days, you will have the foundational knowledge for effectively managing and conducting basic troubleshooting for Workspace ONE UEM.

Virtual Class	40 Hours	MR-1LN-VMWS1UEMBC21
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[VMware Workspace ONE: UEM Troubleshooting \[21.x\]](#)

In this two-day course, you learn to investigate, analyze, and determine issues that might occur with all the different components of VMware Workspace ONE® UEM. Understanding how to effectively troubleshoot product issues enables administrators to understand how product services communicate and function—in turn optimizing service and software health management. Troubleshooting is the backbone of service maintenance and management.

Classroom	16 Hours	MR-1CN-VMWS1UEMTS21
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[VMware Workspace ONE: UEM Troubleshooting \[21.x\] - Virtual Class](#)

In this two-day course, you learn to investigate, analyze, and determine issues that might occur with all the different components of VMware Workspace ONE® UEM. Understanding how to effectively troubleshoot product issues enables administrators to understand how product services communicate and function—in turn optimizing service and software health management. Troubleshooting is the backbone of service maintenance and management.

Virtual Class	16 Hours	MR-1LN-VMWS1UEMTS21
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VMware Telco Cloud

[VMware Telco Cloud Automation: Install, Configure, Manage \[V1.8\]](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware Telco Cloud Automation™ environment. In this course, you are introduced to VMware Telco Cloud Automation infrastructure settings, deployment options, and procedures. You explore Containers as a Service and understand the workflow details of Partner Integration processes. You are introduced to zero-touch provisioning and its importance in VMware Telco Cloud Automation. You onboard and instantiate network functions and network services using hands-on lab exercises. In addition, you are presented with life cycle management workflows as well as various types of technical problems in VMware Telco Cloud Automation, which you will identify, analyze, and solve through a systematic process.

Classroom	40 Hours	MR-1CN-VMTCAICM18
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[VMware Telco Cloud Automation: Install, Configure, Manage \[V1.8\] - Virtual Class](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware Telco Cloud Automation™ environment. In this course, you are introduced to VMware Telco Cloud Automation infrastructure settings, deployment options, and procedures. You explore Containers as a Service and understand the workflow details of Partner Integration processes. You are introduced to zero-touch provisioning and its importance in VMware Telco Cloud Automation. You onboard and instantiate network functions and network services using hands-on lab exercises. In addition, you are presented with life cycle management workflows as well as various types of technical problems in VMware Telco Cloud Automation, which you will identify, analyze, and solve through a systematic process.

Virtual Class	40 Hours	MR-1LN-VMTCAICM18
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[VMware Telco Cloud Infrastructure: Install, Configure, Manage \[V2.0\]](#)

Third Party Vendor

[Cisco Product Training](#)

[Cisco SD-WAN Operation and Deployment - Online ILT](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware Telco Cloud Infrastructure environment. In this course, you are introduced to VMware Cloud Director™ as a virtualized infrastructure manager. You will examine ETSI NFV requirements, deployment options, and procedures. You will also deploy virtualized network functions and understand their detailed configuration settings. You will learn how to support organizations as well as set up networking and security using hands-on lab exercises. In addition, you are presented with various types of technical problems in VMware Cloud Director, which you will identify, analyze, and solve through a systematic troubleshooting process.

Classroom	40 Hours	MR-1CN-VMTCIICM2
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[VMware Telco Cloud Infrastructure: Install, Configure, Manage \[V2.0\] - Virtual Class](#)

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware Telco Cloud Infrastructure environment. In this course, you are introduced to VMware Cloud Director™ as a virtualized infrastructure manager. You will examine ETSI NFV requirements, deployment options, and procedures. You will also deploy virtualized network functions and understand their detailed configuration settings. You will learn how to support organizations as well as set up networking and security using hands-on lab exercises. In addition, you are presented with various types of technical problems in VMware Cloud Director, which you will identify, analyze, and solve through a systematic troubleshooting process.

Virtual Class	40 Hours	MR-1LN-VMTCIICM2
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[VMware Telco Cloud Platform: Install, Configure, Manage \[V2.0\]](#)

This three-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware Telco Cloud Platform™ environment. In this course, you are introduced to the VMware Telco Cloud Platform infrastructure, deployment options, and procedures. You also deploy Kubernetes clusters and understand the detailed configuration settings of management and workload clusters. You onboard and instantiate network functions and network services using hands-on lab exercises. In addition, you are presented with various types of technical problems in VMware Telco Cloud Platform, which you will identify, analyze, and solve through a systematic troubleshooting process.

Classroom	24 Hours	MR-1CN-VMTCPICM2
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[VMware Telco Cloud Platform: Install, Configure, Manage \[V2.0\] - Virtual Class](#)

This three-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware Telco Cloud Platform™ environment. In this course, you are introduced to the VMware Telco Cloud Platform infrastructure, deployment options, and procedures. You also deploy Kubernetes clusters and understand the detailed configuration settings of management and workload clusters. You onboard and instantiate network functions and network services using hands-on lab exercises. In addition, you are presented with various types of technical problems in VMware Telco Cloud Platform, which you will identify, analyze, and solve through a systematic troubleshooting process.

Virtual Class	24 Hours	MR-1LN-VMTCPICM2
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The Cisco SD-WAN Operation and Deployment (ENSDW) v1.0 course provides an overview of the Cisco SD-WAN solution and SD-WAN components. Students will learn how to create, manage, and operate a secure extensible network using Cisco SD-WAN products. The course covers how to configure, operate, and monitor overlay routing in a secure extensible network. Students will also learn about policies and quality of service (QoS) in the SD-WAN overlay network.

Virtual Class	16 Hours	MR-1LN-ENSDW
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[Cisco UCS Director Foundation v6.6](#)

The Cisco UCS Director Foundation (UCSDF) v6.6 course helps you understand concepts, architecture, and deployment use cases for Cisco UCS® Director. You will gain hands-on experience in deploying basic Cisco UCS Director solutions. You will also practice using core features that most implementations require, such as services design, using the self-service portal for provisioning services, creating workflows that enable cloud automation and standardize IT services, and more.

Virtual Class	24 Hours	MR-1LN-UCSDFV6.6
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[Configuring Cisco MDS 9000 Series Switches - Virtual](#)

The Configuring Cisco MDS 9000 Series Switches (DCMDS) v3.1 course shows you how to implement, manage, and troubleshoot Cisco® MDS 9000 Series Switches, to build highly available, scalable storage networks. Through expert instruction and extensive hands-on practice, you will learn how to deploy and use capabilities such as Virtual Storage Area Networks (VSANs), Role-Based Access Control (RBAC), N-Port Virtualization (NPV) fabric security, zoning, automation with NX-API, Slow Drain Analysis, SAN analytics, Fibre Channel over TCP/IP (FCIP) tunnels, and more. You will learn how to configure and implement platform features and learn troubleshooting techniques pertaining to Fibre Channel (FC) domains, firmware upgrades, zones, and zone mergers. This course prepares you for Cisco CCNP Data Center and Cisco Certified Specialist - Data Center SAN Implementation certifications (DCSAN).

Virtual Class	32 Hours	MR-1LN-DCMDSV3.1
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[Configuring Cisco Unified Computing System - Virtual Classroom](#)

The Configuring Cisco Unified Computing System (DCCUCS) v1.0 shows you how to deploy, secure, operate, and maintain Cisco Unified Computing System (Cisco UCS) B-series blade servers, Cisco UCS C-Series, and S-Series rack servers for use in data centers. You will learn how to implement management and orchestration software for Cisco UCS. You will gain hands-on practice on: configuring key features of Cisco UCS, Cisco UCS Director, and Cisco UCS Manager; implementing UCS management software including Cisco UCS Director, Cisco UCS Manager, and Cisco Intersight; and more. This course can be used to prepare for the new CCNP Data Center and CCIE Data Center certifications.

Virtual Class	24 Hours	MR-1LN-DCCUCS
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[Designing Cisco Data Center Infrastructure - Virtual](#)

The Designing Cisco Data Center Infrastructure (DCID) v7.0 course helps you master design and deployment options focused on Cisco® data center solutions and technologies across network, compute, virtualization, storage area networks, automation, and security. You will learn design practices for the Cisco Unified Computing System™ (Cisco UCS®) solution based on Cisco UCS B-Series and C-Series servers, Cisco UCS Manager, and Cisco Unified Fabric. You will also gain design experience with network management technologies including Cisco UCS Manager, Cisco Data Center Network Manager (DCNM), and Cisco UCS Director. You can expect theoretical content as well as design-oriented case studies in the form of activities

Virtual Class	40 Hours	MR-1LN-DCIDV7.0
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[Designing Cisco Enterprise Networks - Virtual Class](#)

The Designing Cisco Enterprise Networks (ENSLD) v1.0 course gives you the knowledge and skills you need to design an enterprise network. This course serves as a deep dive into enterprise network design and expands on the topics covered in the Implementing and Operating Cisco® Enterprise Network Core Technologies (ENCOR) v1.0 course. This course also helps you prepare to take the exam, Designing Cisco Enterprise Networks v1.0 (ENSLD 300-420), which is part of the CCNP® Enterprise and Cisco Certified Specialist - Enterprise Design certifications.

Virtual Class	40 Hours	MR-1LN-ENSLDV1.0
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[Designing Cisco Enterprise Wireless Networks - Virtual Class](#)

The Designing Cisco Enterprise Wireless Networks (ENWLS) v1.0 course gives you the knowledge you need to design Cisco wireless networks. The course covers design specifics from scenario design concepts through the installation phase and into post-deployment validation. This course, including the self-paced material, helps prepare you to take the exam, Designing Cisco Enterprise Wireless Networks (300-425 ENWLS), which leads to the new CCNP Enterprise and Cisco Certified Specialist – Enterprise Wireless Design certifications. The exam will be available beginning February 24, 2020

Virtual Class	40 Hours	MR-1LN-ENWLSDV1.0
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[Implementing and Administering Cisco Solutions](#)

The Implementing and Administering Cisco Solutions (CCNA) v1.0 course gives you a broad range of fundamental knowledge for all IT careers. Through a combination of lecture and hands-on labs, you will learn how to install, operate, configure, and verify basic IPv4 and IPv6 networks. The course covers configuring network components such as switches, routers, and wireless LAN controllers; managing network devices; and identifying basic security threats. The course also gives you a foundation in network programmability, automation, and software-defined networking. This course helps you prepare to take the 200-301 Cisco Certified Network Associate (CCNA) exam. By passing this one exam, you earn CCNA certification.

Virtual Class	40 Hours	ES40SLCCNAV1.0
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[Implementing and Configuring Cisco Identity Services Engine \[3.0\] - Online ILT](#)

This course discusses the Cisco Identity Services Engine (ISE), an identity and access control policy platform that provides a single policy plane across the entire organization, combining multiple services, including authentication, authorization, and accounting (AAA), posture, profiling, device on-boarding, and guest management, into a single context-aware identity-based platform. The training provides learners with the knowledge and skills to enforce security posture compliance for wired and wireless endpoints and enhance infrastructure security using the Cisco ISE.

Virtual Class	40 Hours	MR-1LN-SISEV3.0
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[Implementing and Operating Cisco Data Center Core Technologies - Virtual](#)

The Implementing and Operating Cisco Data Center Core Technologies (DCCOR) v1.0 course helps you prepare for the Cisco® CCNP® Data Center and CCIE® Data Center certifications and for advanced-level data center roles. In this course, you will master the skills and technologies you need to implement data center compute, LAN and SAN infrastructure. You will also learn the essentials of automation and security in data centers. You will get hands-on experience with deploying, securing, operating, and maintaining Cisco data center infrastructure including: Cisco MDS Switches and Cisco Nexus Switches; Cisco Unified Computing System™ (Cisco UCS®) B-Series Blade Servers, and Cisco UCS C-Series Rack Servers. This course, including the self-paced material, helps prepare you to take the exam, Implementing Cisco Data Center Core Technologies (300-601 DCCOR), which leads to the new CCNP Data Center, CCIE Data Center, and the Cisco Certified Specialist - Data Center Core certifications. The exam will be available beginning February 24, 2020.

Virtual Class	40 Hours	MR-1LN-DCCOR
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[Implementing and Operating Cisco Enterprise Network Core Technologies v1.0 - On Demand](#)

This course gives you the knowledge and skills needed to configure, troubleshoot, and manage wired and wireless Cisco enterprise networks.

On Demand Class	40 Hours	MR-1WN-GK100475
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[Implementing and Operating Cisco Security Core Technologies](#)

The Implementing and Operating Cisco Security Core Technologies (SCOR) v1.0 course helps you prepare for the Cisco CCNP Security and CCIE Security certifications and for senior-level security roles. In this course, you will master the skills and technologies you need to implement core Cisco security solutions to provide advanced threat protection against cybersecurity attacks. You will learn security for networks, cloud and content, endpoint protection, secure network access, visibility and enforcements. You will get extensive hands-on experience deploying Cisco Firepower Next-Generation Firewall and Cisco ASA Firewall; configuring access control policies, mail policies, and 802.1X Authentication; and more. You will get introductory practice on Cisco Stealthwatch Enterprise and Cisco Stealthwatch Cloud threat detection features. This course, including the self-paced material, helps prepare you to take the exam, Implementing and Operating Cisco Security Core Technologies (350-701 SCOR), which leads to the new CCNP Security, CCIE Sec

Virtual Class	40 Hours	MR-1LN-SCOR
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[Implementing Cisco Application Centric Infrastructure - Virtual](#)

The Implementing Cisco Application Centric Infrastructure (DCACI) v1.0 course show you how to deploy and manage the Cisco® Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode. The course gives you the knowledge and skills to configure and manage Cisco Nexus 9000 Series Switches in ACI mode, how to connect the Cisco ACI fabric to external networks and services, and fundamentals of Virtual Machine Manager (VMM) integration. You will gain hands-on practice implementing key capabilities such as fabric discovery, policies, connectivity, VMM integration, and more. This course helps you prepare to take the exam, Implementing Cisco Application Centric Infrastructure (300-620 DCACI), which leads to CCNP® Data Center and Cisco Certified Specialist – Data Center ACI Implementation certifications.

Virtual Class	40 Hours	MR-1LN-DCACI
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[Implementing Cisco Enterprise Wireless Networks - Virtual Class](#)

The Implementing Cisco Enterprise Wireless Networks (ENWLSI) v1.0 course gives you the knowledge and skills needed to secure wireless network infrastructure and troubleshoot any related issues. You'll learn how to implement and secure a wireless network infrastructure and use Cisco Identity Service Engine (ISE), Cisco Prime Infrastructure (PI), and Cisco Connect Mobile Experience to monitor and troubleshoot network issues. The course provides hands-on labs to reinforce concepts including deploying Cisco Prime Infrastructure Release 3.5, Cisco Catalyst 9800 Wireless Controller Release IOS XE Gibraltar 16.10, Cisco Digital Network Architecture (DNA) Center Release 1.2.8, Cisco CMX Release 10.5, Cisco MSE Release 8.0 features and Cisco Identity Services Engine (ISE) Release 2.4. This course also helps you prepare to take the Implementing Cisco Enterprise Wireless Networks (300-430 ENWLSI) exam, which is part of the new CCNP Enterprise certification and the Cisco Certified Specialist - Enterprise Wireless Implementation certification.

Virtual Class	40 Hours	MR-1LN-ENWLSIV.0
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[Implementing Cisco Enterprise Wireless Networks - Virtual Class](#)

The Implementing Cisco Enterprise Wireless Networks (ENWLSI) v1.0 course gives you the knowledge and skills needed to secure wireless network infrastructure and troubleshoot any related issues. You'll learn how to implement and secure a wireless network infrastructure and use Cisco Identity Service Engine (ISE), Cisco Prime Infrastructure (PI), and Cisco Connect Mobile Experience to monitor and troubleshoot network issues. The course provides hands-on labs to reinforce concepts including deploying Cisco Prime Infrastructure Release 3.5, Cisco Catalyst 9800 Wireless Controller Release IOS XE Gibraltar 16.10, Cisco Digital Network Architecture (DNA) Center Release 1.2.8, Cisco CMX Release 10.5, Cisco MSE Release 8.0 features and Cisco Identity Services Engine (ISE) Release 2.4. This course also helps you prepare to take the Implementing Cisco Enterprise Wireless Networks (300-430 ENWLSI) exam, which is part of the new CCNP Enterprise certification and the Cisco Certified Specialist - Enterprise Wireless Implementation certification. The exam w

Virtual Class	40 Hours	MR-1LN-ENWLSIV.1
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[Introducing Cisco Unified Computing System - Virtual Class](#)

The Introducing Cisco Unified Computing System (DCIUCS) v1.0 is an introductory course that shows you how to deploy, secure, operate and maintain the Cisco Unified Computing system (Cisco UCS) B-Series blade server, Cisco UCS C-Series and S-Series rack servers, and Cisco HyperFlex product family, for use in data centers. You will gain hands-on practice on basic Cisco UCS server configuration and performing backup and restore activities. This course can be used to prepare for the new CCNP Data Center and CCIE Data Center certifications.

Virtual Class	16 Hours	MR-1LN-DCIUCS
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[Troubleshooting Cisco Data Center Infrastructure \(DCIT\) v6.2 - Online ILT](#)

The Troubleshooting Cisco Data Center Infrastructure (DCIT) skills-building course focuses on troubleshooting of LANs, SANs, Cisco Unified Fabric, Cisco Unified Computing System (Cisco UCS), and Cisco Application Centric Infrastructure (ACI). The course provides rich hands-on experience in resolving problems on Cisco MDS switches, Cisco Nexus switches, Cisco Fabric Extenders (FEX), Cisco UCS, and Cisco ACI.

Virtual Class	40 Hours	MR-1LN-DCITV6.2
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[Understanding Cisco Collaboration Foundations - Virtual Classroom](#)

The Understanding Cisco Collaboration Foundations (CLFNDU) 1.0 course gives you the skills and knowledge needed to administer and support a simple, single-site Cisco Unified Communications Manager (CM) solution with Session Initiation Protocol (SIP) gateway. The course covers initial parameters, management of devices including phones and video endpoints, management of users, and management of media resources, as well as Cisco Unified Communications solutions maintenance and troubleshooting tools. In addition, you will learn the basics of SIP dial plans including connectivity to Public Switched Telephone Network (PSTN) services, and how to use class-of-service capabilities. This course provides the fundamental knowledge needed to take CCNP® Collaboration certification courses. It also serves as an entry-level training for newcomers to Cisco on-premise collaboration technologies.

Virtual Class	40 Hours	MR-1LN-CLFNDU
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[Understanding Cisco Data Center Foundations - Virtual](#)

The Understanding Cisco Data Center Foundations (DCFNDU) v1.0 course helps you prepare for entry-level data center roles. In this course, you will learn the foundational knowledge and skills you need to configure Cisco® data center technologies including: networking, virtualization, storage area networking, and unified computing. You will get an introduction to Cisco Application Centric Infrastructure (Cisco ACI™), automation, and cloud computing. You will get hands-on experience with configuring features on Cisco Nexus® Operating System (Cisco NX-OS) and Cisco Unified Computing System™ (Cisco UCS®).

Virtual Class	40 Hours	MR-1LN-DCFNDU
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Google Cloud

[Google Cloud Fundamentals: Core Infrastructure](#)

This course provides an overview of Google Cloud Platform products and services. Through a combination of presentations, demos, and hands-on labs, you will learn the value of Google Cloud Platform and how to incorporate cloud-based solutions into business strategies.

Virtual Class	08 Hours	ESTPYS03283
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Red Hat

[Red Hat System Administration I RH124](#)

The first of two courses covering the core system administration tasks needed to manage Red Hat Enterprise Linux servers. Red Hat System Administration I RH124 equips you with Linux administration survival skills by focusing on foundational Linux concepts and core tasks. You will learn how to apply command-line concepts and enterprise-level tools, starting you on your journey toward becoming a full-time Linux system administrator. This course is based on Red Hat® Enterprise Linux 9.0.

Unstructured Storage

Apex

[APEX Data Storage Services: File - Capacity Management](#)

This course focuses on monitoring the capacity of your file storage within the APEX solution. Providing appropriate storage pools, setting filters to examine files being stored, and setting appropriate quotas for your environment.

On Demand Class	01 Hours	ESSTGD03503
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[APEX Data Storage Services: File - Data Protection](#)

This course focuses on the data protection features and functions when storing file data within the APEX solution. The course provides demonstrations and hands-on activity to ensure students know the available options and features to appropriately protect any data brought into the system automatically.

On Demand Class	01 Hours	ESSTGD03504
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[APEX Data Storage Services: File – Client Access](#)

The APEX Data Storage Services Element Manager allows you to adjust configuration of your data storage. This course will step through tasks you can do to configure your file storage services.

On Demand Class	02 Hours	ESSTGD02944
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CloudIQ

[CloudIQ Concepts & Features](#)

This course is designed to provide a comprehensive introduction to the CloudIQ platform. From this training, students will gain a foundational understanding of the CloudIQ platform to prepare learners to utilize CloudIQ for specific product monitoring.

On Demand Class	02 Hours	ES301STG02108
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DataIQ

[DataIQ Administration and Management](#)

This course covers the administration of DataIQ. How to use DataIQ monitoring features and plugins to provide the information you need about your connected storage systems.

On Demand Class	01 Hours 30 Minutes	ES101STG01599
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[DataIQ Concepts and Features](#)

This course presents an overview of the DataIQ product at a high level. What is DataIQ, what can it do and what does it look like

On Demand Class	01 Hours	ES102STG01326
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Virtual Class	40 Hours	ESTPYS03281
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[Red Hat System Administration II RH134](#)

Red Hat System Administration II RH134 serves as the second part of the RHCSA training track for IT professionals who have taken Red Hat System Administration I RH124. The course goes deeper into core Linux system administration skills in storage configuration and management, installation and deployment of Red Hat Enterprise Linux®, management of security features such as SELinux, control of recurring system tasks, management of the boot process and troubleshooting, basic system tuning, and comm and-line automation and productivity.

Virtual Class	40 Hours	ESTPYS03282
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[DataIQ Installation and Implementation](#)

This course covers the initial installation of the DataIQ software, initial configuration to connect your storage systems and DataIQ to enable the DataIQ storage monitoring capabilities.

On Demand Class	01 Hours 30 Minutes	ES501STG01598
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ECS

[Data Domain Cloud Tier and ECS Integrated Solution](#)

The Elastic Cloud Storage (ECS) and Data Domain Cloud Tier Integration eLearning course is intended to supplement and augment the knowledge provided in the ECS Management and Monitoring course and the Data Domain System Administration course. This course is intended to provide further details on the integrated solution using ECS as a Cloud Tier with Data Domain. This course includes use cases, provides information about the configuration of ECS and Data Domain, and includes configuration demonstrations.

On Demand Class	01 Hours	MR-1WN-ECSDDCI
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[ECS 3.3 Features and Differences](#)

This course covers an overview of the enhancements, features and new functionality of ECS 3.3.

On Demand Class	02 Hours	ES131STG00948
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[ECS Administration](#)

This course is intended for anyone who needs to manage, customize, monitor, or use an ECS system for data storage. It provides detailed coverage of ECS features designed to support typical use cases, including global content repository, geo-scale object storage with Access Anywhere, and Big Data Analytics.

Classroom	40 Hours	ESSTGS02853
Virtual Class	40 Hours	ESSTGS02853

[ECS Administration - On-Demand](#)

This course is intended for anyone who needs to manage, customize, monitor, or use an ECS system for data storage. It provides detailed coverage of ECS features designed to support typical use cases, including global content repository, geo-scale object storage with Access Anywhere, and Big Data Analytics.

On Demand Class	40 Hours	ESSTGD02854
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[ECS Application Developer Workshop](#)

The ECS Application Developer workshop is designed to help application developers learn the concepts and best practices when developing next-generation applications that leverage object storage (e.g. S3) instead of traditional storage (e.g. SAN or NAS). The course includes a review of Frequently Asked Questions and guided hands-on labs and sample code.

On Demand Class	02 Hours	MR-1TN-ECSADW
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[ECS Concepts and Features](#)

This course is designed to provide a comprehensive introduction to ECS. From this training, students will gain a high-level understanding of how ECS works, product architecture, configurations that are typically deployed, and product features that enable management of the ECS environment.

On Demand Class	02 Hours	MR-EWN-ETEC SO
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[ECS Data Client Access - OpenStack Swift](#)

This course covers ECS integration with OpenStack Swift. The course is intended to provide greater detail on the configuration, use, and management capabilities using the management interface and using the APIs. This course supplements and augments the knowledge provided in the ECS Management and Monitoring Course.

On Demand Class	01 Hours 30 Minutes	MR-1WN-ECSDCAOSW
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[ECS Networking Implementation](#)

This eLearning course covers ECS networking concepts and configuration and provides specific details on all the latest ECS network hardware, network separation and topologies. The course also includes various network configurations and best practices.

On Demand Class	02 Hours	ESSTGD02586
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[Isilon CloudPools and ECS Integrated Solution](#)

The Elastic Cloud Storage (ECS) and Isilon CloudPools integration eLearning course is intended to supplement and augment the knowledge provided in the ECS Management and Monitoring course and the Isilon Administration and Management course. This course is intended to provide further details on the integrated solution using ECS as a Cloud storage target with Isilon. This course includes use cases, provides information about the configuration of ECS and Isilon, and includes configuration demonstrations.

On Demand Class	01 Hours	MR-1WN-ECSICP
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[NetWorker CloudBoost and ECS Integrated Solution](#)

The Elastic Cloud Storage (ECS) and NetWorker CloudBoost Integration eLearning course is intended to supplement and augment the knowledge provided in the ECS Management and Monitoring course and the NetWorker Implementation and Management course. This course is intended to provide further details on the integrated solution using ECS as a CloudBoost tier with NetWorker. This course includes use cases, provides information about the configuration of ECS and NetWorker, and includes configuration demonstrations.

On Demand Class	01 Hours	MR-1WN-ECSNWC B
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PowerScale

[PowerScale A2000 Hardware Installation and Maintenance](#)

This course presents a focused view of PowerScale hardware installation and maintenance specific to one specialized cluster implementation.

On Demand Class	01 Hours	ESSTGD02468
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[PowerScale Administration](#)

This course will prepare students to implement a Dell EMC PowerScale cluster, configure software features of the OneFS operating system and administer a cluster on a day to day basis. Students will learn about PowerScale's data protection methods, the ability to tier data from one node pool to another based on configured rules and synchronize data to other clusters or to cloud resources. This course is in alignment with the Specialist, PowerScale Implementation Engineer Proven Professional certification. Note this is an update to the previously known Isilon Administration and Management course. This package does not include a Proven Professional exam voucher, in order to add please search for "Dell Technologies Proven Professional VUE Exam Voucher" or Course ID "MR-1EV-VUEEMCPROV"

Classroom	40 Hours	MR-1CP-ISIAM
Virtual Class		MR-1CP-ISIAM

[PowerScale Administration](#)

This course will prepare students to implement a Dell EMC PowerScale cluster, configure software features of the OneFS operating system and administer a cluster on a day to day basis. Students will learn about PowerScale's data protection methods, the ability to tier data from one node pool to another based on configured rules and synchronize data to other clusters or to cloud resources. This course is in alignment with the Specialist, Isilon Implementation Engineer Proven Professional certification. This is a direct update to the previously known Isilon Administration and Management course.

Virtual Class	40 Hours	MR-1LP-ISIAM
Classroom		MR-1LP-ISIAM

[PowerScale Administration - On-Demand](#)

The PowerScale Administration course prepares students to perform Dell EMC PowerScale cluster and OneFS 9.0 implementation, configuration, and administration. Topics include an overview of hardware, the configuration and verification of basic and advanced networking, authentication, identity management and authorization, client and data access, data layout, and OneFS modules such as SmartPools, SnapshotIQ, SyncIQ, SmartDedup, and others. This training consists of 8 modules. The total time required to complete this course and the accompanying lab exercises is approximately 5 days. This course is an update to the Isilon Administration and Management course.

On Demand Class	40 Hours	MR-1TP-ISIAM-0608
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[PowerScale Advanced Administration](#)

This course builds on the PowerScale Administration course to provide a deeper look at advanced topics such as Authentication, Performance Monitoring, Disaster Recovery and System Troubleshooting. This course is accompanied by hands-on lab activities. This is an update to the previously known Isilon Advanced Administration course and is offered exclusively as a classroom or remote classroom experience with a live instructor.

Classroom	40 Hours	ES103STG01979
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[PowerScale Advanced Administration](#)

This course builds on the PowerScale Administration course to provide a deeper look at advanced topics such as Authentication, Performance Monitoring, Disaster Recovery and System Troubleshooting. This course is accompanied by hands-on lab activities. This is an update to the previously known Isilon Advanced Administration course and is offered exclusively as a classroom or remote classroom experience with a live instructor.

Virtual Class	40 Hours	ES103STG01980
Classroom		ES103STG01980

[PowerScale and NetApp Admin Differences](#)

This course provides a comparison in common daily tasks for a NetApp administrator and how or if they translate when using an Isilon cluster instead.

On Demand Class	01 Hours	MR-1WN-ISINADIFF
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[PowerScale Concepts](#)

This course provides the groundwork to understand the Dell EMC PowerScale scale-out NAS solution from a holistic perspective. The latest architecture in terms of hardware configurations and software features are discussed in context with some of the use cases for the product. This is a direct update to the course previously known as Isilon Fundamentals 2019.

On Demand Class	02 Hours	ES131STG01028
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[PowerScale File System: OneFS File System Data Layout](#)

In this course we will discover the components of a PowerScale OneFS write request, examine the relationship between capacity, protection and performance, walk through the components of a read request, and balance decisions to match the goals for your data.

On Demand Class	23 Minutes	ISI-9WN-DATALAYOUT
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[PowerScale Implementation](#)

The Dell EMC PowerScale Implementation course is a video based, online presentation, designed to introduce customer engineers and implementation specialists to the steps to perform the initial configuration. This course is presented using a range of mediums, from animations to video demonstrations. Topics include creating a new cluster, joining a node to an existing cluster, completing the initial configuration, and completing other configuration options. This is an update to the course previously known as Isilon Initial Configuration 2017.

On Demand Class	01 Hours 30 Minutes	MR-7WP-ISIIC17
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[PowerScale Performance - IO Optimization](#)

PowerScale Performance is a series of courses that step through configurable elements of the PowerScale operating system focused on changes in performance. Each course will focus on a specific scenario, their configurable elements and the expected performance attributes, then an associated on-demand lab will allow you to get hands on with performance tuning tasks.

On Demand Class	01 Hours	ESSTGD02648
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[PowerScale Performance - Migration with File Filtering](#)

PowerScale Performance is a series of courses that step through configurable elements of the PowerScale operating system focused on changes in performance. Each course will focus on a specific scenario, their configurable elements and the expected performance attributes, then an associated on-demand lab will allow you to get hands on with performance tuning tasks.

On Demand Class	01 Hours	ESSTGD02920
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[PowerScale Performance - NDMP Tuning](#)

PowerScale Performance is a series of courses that step through configurable elements of the PowerScale operating system focused on changes in performance. Each course will focus on a specific scenario, their configurable elements and the expected performance attributes, then an associated on-demand lab will allow you to get hands on with performance tuning tasks.

On Demand Class	01 Hours	ESSTGD02921
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[PowerScale Performance - OneFS Caching](#)

This course takes a close look at OneFS Caching which can be used to identify the actual workflow type and where further examination of performance characteristics could be performed.

On Demand Class	01 Hours	ESSTGD03016
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[PowerScale Performance - Small File Storage Efficiency](#)

PowerScale Performance is a series of courses that step through configurable elements of the PowerScale operating system focused on changes in performance. Each course will focus on a specific scenario, their configurable elements and the expected performance attributes, then an associated on-demand lab will allow you to get hands on with performance tuning tasks.

On Demand Class	01 Hours	ESSTGD02919
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[PowerScale Performance - SyncIQ Tuning](#)

PowerScale Performance is a series of courses that step through configurable elements of the PowerScale operating system focused on changes in performance. Each course will focus on a specific scenario, their configurable elements and the expected performance attributes, then an associated on-demand lab will allow you to get hands on with performance tuning tasks.

On Demand Class	01 Hours	ESSTGD02649
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[Tech Exchange - PowerScale Simplify and Consolidate Workflows](#)

This session discusses how PowerScale can simplify and consolidate workflows to increase flexibility, adding value to large-scale unstructured data assets. Our expert explains the benefits of using one operating system and provides use cases and examples of techniques to consolidate and control separation as needed.

On Demand Class	30 Minutes	ESMDXD03851
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[SRM](#)

[SRM 4.x Administration User Interface](#)

This course introduces the administration user interface features and functionalities. This course describes the operations performed in the discovery wizard, user and authentication settings, and administration settings.

On Demand Class	30 Minutes	ES132STG01116
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[SRM 4.x Application SolutionPack](#)

This course introduces SRM SolutionPack, its types, and functionalities. It describes the process of installing and validating an ApplicationSolutionPack using SRM frontend.

On Demand Class	30 Minutes	ES132STG01117
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[SRM 4.x Backend Operations](#)

This course introduces the SRM Backend architecture and its data flow. This course also covers the tasks that are performed for monitoring and troubleshooting the backend component. The topology services and its functionalities are also discussed in this course.

On Demand Class	45 Minutes	ES132STG01122
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[SRM 4.x Complex Expansion - On-Demand Course](#)

This course introduces techniques used to take data from multiple sources to generate reports using the complex expansion feature. This course covers four of the commonly used complex expansion types, which are simple-split, split, regex, and sql.

On Demand Class	01 Hours	MR-1WP-SRM4COMEXP
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[SRM 4.x Concepts - On-Demand Course](#)

This course provides an introduction to SRM. It includes an overview of SRMs architecture, features, functionality, and user interface.

On Demand Class	01 Hours	ES131STG00210
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[SRM 4.x Concepts: Alert Reports - On-Demand Course](#)

This course covers an introduction to alert report in SRM. It also covers the operations that are performed in the alert report.

On Demand Class	15 Minutes	ES131STG00216
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[SRM 4.x Concepts: Architecture](#)

This course introduces the Dell EMC SRM architectural components like Frontend, Primary Backend, Additional Backends, Collector Manager and Database. It also describes the types of data collected and data flow. Base Deployment, All-in-One, and complete architecture models of SRM are also discussed in this course.

On Demand Class	30 Minutes	ES132STG01106
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[SRM 4.x Concepts: Backup and Restore](#)

This course introduces the SRM Backup concepts. This course also covers the operations for backup and restore. The VMware High Availability along with vSphere fault tolerance, vSphere vMotion and vSphere Storage motion are also discussed in this course.

On Demand Class	25 Minutes	ES132STG01124
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[SRM 4.x Concepts: Graph Reports - On-Demand Course](#)

This course covers an introduction to graph report in SRM. It also covers the operations that are performed in the graph report.

On Demand Class	15 Minutes	ES131STG00214
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[SRM 4.x Concepts: Portal Navigation - On-Demand Course](#)

This course identifies the functional areas of the SRM console and describes the options available in menu bar, navigation bar, and report area.

On Demand Class	30 Minutes	ES131STG00211
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[SRM 4.x Concepts: Report Features and User Customizations - On-Demand Course](#)

This course covers various report features like scheduling a report, changing display settings for a report, and so on. It also covers report wizards and other user customization options.

On Demand Class	15 Minutes	ES131STG00218
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[SRM 4.x Concepts: Report Types - On-Demand Course](#)

This course identifies various types of reports available in the portal and describes the options available in various report types.

On Demand Class	15 Minutes	ES131STG00212
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[SRM 4.x Data Enrichment - On-Demand Course](#)

This course provides the learner with an advanced understanding of SRM administration features concentrating on Data Enrichment.

On Demand Class	45 Minutes	MR-1WP-SRM4DATAEN
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[SRM 4.x Extracting Data - On-Demand Course](#)

This course introduces techniques to extract data from the SRM product. The techniques include report scheduling and web services. Web services include a presentation of SOAP XML and REST API.

On Demand Class	01 Hours	MR-1WP-SRM4EXTDAT
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[SRM 4.x Features: Alert Configuration](#)

This course explains the alerting components, process, and alert consolidation. It also describes frontend components, pre-configured alert definition, alert definition panel, and its components. This course also covers internal alert operations, storage-related prerequisites, enabling and disabling alert definition.

On Demand Class	35 Minutes	ES132STG01119
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[SRM 4.x Features: Collector Operations](#)

This course introduces DELL EMC SRM Collector, including Collector Host and Load Balancer Connector. It also explains SRM SolutionPacks (SP), SP components, SP installation and maintenance, and event handling operations.

On Demand Class	30 Minutes	ES132STG01123
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[SRM 4.x Features: Device Discovery](#)

This course describes discovery center, tools and process along with discovery center backend, process and architecture. It also covers device management and discovery wizard.

On Demand Class	25 Minutes	ES132STG01201
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[SRM 4.x Features: User Management and Authentication](#)

This course introduces the SRM Users, Profiles and Roles. It also describes master filter and role management. User Authentication and Authorization concepts are also covered in this course. Along with that LDAP securing connectivity setup is also discussed.

On Demand Class	45 Minutes	ES132STG01118
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[SRM 4.x for Storage Administrators - Classroom](#)

This course will assist storage administrators to monitor and report on a storage environment using SRM. Various SRM use cases are presented. Hands-on labs will cover the creation of localized dashboard views and reports which can be used to analyze common storage management issues related to performance, capacity planning, storage chargeback, configuration compliance, service level usage, and alerting.

Classroom	16 Hours	MR-1CP-SRM4ADM
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[SRM 4.x for Storage Administrators - On-Demand Course](#)

This course will assist storage administrators to monitor and report on a storage environment using SRM. Various SRM use cases are presented. Demos will cover the creation of localized dashboard views and reports which can be used to analyze common storage management issues related to performance, capacity planning, storage chargeback, configuration compliance, service level usage, and alerting.

On Demand Class	24 Hours	MR-1TP-SRM4ADM-1612
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[SRM 4.x for Storage Administrators - Virtual Classroom](#)

This course will assist storage administrators to monitor and report on a storage environment using SRM. Various SRM use cases are presented. Hands-on labs will cover the creation of localized dashboard views and reports which can be used to analyze common storage management issues related to performance, capacity planning, storage chargeback, configuration compliance, service level usage, and alerting.

Virtual Class	16 Hours	MR-1LP-SRM4ADM
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[SRM 4.x Implementation](#)

This course provides an overview of the SRM Installation process. It describes deployment operations, the post installation steps and validation. It also provides an overview on SRM Expansion. This includes SRM Expansion workflow, scaling out Backend and Collector, installation of Additional Backend Host, Collector Host, and Additional Frontend Host.

On Demand Class	45 Minutes	ES132STG01115
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[SRM 4.x Implementation and Management - On-Demand Course](#)

This course covers initial installation, configuration, and validation of a SRM deployment using both the vApp and Binary methods. Lecture and labs will support performing frontend and backend administration, platform expansion, SolutionPack deployment, alerting, and related troubleshooting procedures. Demonstrations assist the learner to integrate and practice the skills introduced in class, and provide real-life experiences with selected SolutionPacks and common administrative tasks.

On Demand Class	24 Hours	MR-1TP-SRM4IM-1704
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[SRM 4.x Implementation and Management - Virtual Classroom](#)

This course covers initial installation, configuration, and validation of a SRM deployment using both the vApp and Binary methods. Lecture and labs will support performing frontend and backend administration, platform expansion, SolutionPack deployment, alerting, and related troubleshooting procedures. Hands-on labs assist the learner to integrate and practice the skills introduced in class, and provide real-life experiences with selected SolutionPacks and common administrative tasks.

On Demand Class		MR-1LP-SRM4IM
Virtual Class	24 Hours	MR-1LP-SRM4IM

[SRM 4.x Infrastructure SolutionPack](#)

This course introduces SRM SolutionPack, its types, and functionalities. It describes the process of installing and validating an InfrastructureSolutionPack using SRM frontend.

On Demand Class	30 Minutes	ES132STG01127
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[SRM 4.x Maintenance - On-Demand Course](#)

The goal of the course is to provide knowledge on how to proactively detect potential issues in the SRM platform and to address them to alleviate the risk of loss of service of the SRM platform. The course begins with a holistic view of the platform before entering in components and architecture details. The course then covers common tasks in monitoring, troubleshooting, and maintaining of the backend, frontend, and collection layers of the platform. The final topic of this course covers backup and recovery, and upgrades of the SRM platform.

On Demand Class	16 Hours	MR-1TP-SRM4MAINT-1704
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[SRM 4.x Maintenance - Virtual Classroom](#)

The goal of the course is to provide knowledge on how to proactively detect potential issues in the SRM platform and to address them to alleviate the risk of loss of service of the SRM platform. The course begins with a holistic view of the platform before entering in components and architecture details. The course then covers common tasks in monitoring, troubleshooting, and maintaining of the backend, frontend, and collection layers of the platform. The final topic of this course covers backup and recovery, and upgrades of the SRM platform. In order to better integrate the concepts presented, some labs and demos activities are provided.

Virtual Class	16 Hours	MR-1LP-SRM4MAINT
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[SRM 4.x Maintenance Concepts](#)

This course introduces the maintenance tasks performed by the storage administrators. It also discusses about various logs and the operations carried out by vApp Utilities Manger.

On Demand Class	45 Minutes	ES132STG01120
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[SRM 4.x Reporting - Classroom](#)

This course provides the learner with a base understanding of SRM reporting editing features. Many concepts of SRM reporting are covered: data organization, manipulation, and selection for report generation. The base concepts acquired will allow users to edit and customize reports, as well as to create base reports, such as tables, graphs, and advanced report types. Hands on labs will assist the learner to integrate and practice the lecture material. This course assumes you are already familiar with the report user interface and tools at the level of a user or report consumer.

Classroom	24 Hours	MR-1CP-SRM4REP
Virtual Class		MR-1CP-SRM4REP

[SRM 4.x Reporting - On-Demand Course](#)

This course provides the learner with a base understanding of SRM reporting editing features. Many concepts of SRM reporting are covered: data organization, manipulation, and selection for report generation. The base concepts acquired will allow users to edit and customize reports, as well as to create base reports, such as tables, graphs, and advanced report types. Demos will assist the learner to integrate and practice the lecture material. This course assumes you are already familiar with the report user interface and tools at the level of a user or report consumer.

On Demand Class	24 Hours	MR-1TP-SRM4REP-1703
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[SRM 4.x Reporting Features Revisited - On-Demand Course](#)

This course covers the concept of spatial aggregation, additional features to enhance report layouts, modify reports through a period of exclusion, and create pre-generated reports.

On Demand Class	01 Hours	MR-1WP-SRM4ADREPF
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[SRM 4.x Storage SolutionPack](#)

This course introduces SRM SolutionPack, its types, and functionalities. It describes the process of installing and validating a Storage Solution Pack using SRM front end.

On Demand Class	30 Minutes	ES132STG01121
On Demand Lab		ES132STG01121

[SRM 4.x Upgrades](#)

This course introduces the SRM upgrades and its best practices. It lists down the required tools and credentials. It also explains automated upgrade and online update process.

On Demand Class	15 Minutes	ES132STG01125
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[SRM Reporting](#)

This course provides the learner with a base understanding of SRM reporting editing features. Many concepts of SRM reporting are covered: data organization, manipulation, and selection for report generation. The base concepts acquired will allow users to edit and customize reports, as well as to create base reports, such as tables, graphs, and advanced report types. Hands on labs will assist the learner to integrate and practice the lecture material. This course assumes you are already familiar with the report user interface and tools at the level of a user or report consumer.

Virtual Class	24 Hours	MR-1LP-SRM4REP
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CI/HCI Block Rail

VxRail

[DCS-SA VxRail System Administrator \[Classroom\] - Package](#)

This Learning path present the entirety of the curricula required to complete the learning activities in order to attain the DCS-6332 Specialist - Systems Administrator, VxRail certification.

This package includes the following courses:

- VxRail Administration(Virtual Class, 24 Hours|Classroom, 24 Hours)
- Cloud Infrastructure and Services v3 - On-demand Course(On Demand Class, 32 Hours)
- VxRail 7.0.XXX Concepts(On Demand Class, 01 Hours 30 Minutes)
- VxRail 7.0.XXX Feature - REST API(On Demand Class, 02 Hours)
- Cloud infrastructure and Services v4(On Demand Class, 32 Hours)

[VCF on VxRail Administration - Package](#)

This Learning path present the entirety of the curricula required to complete the learning activities from VxRail orientation through VCF on VxRail administration.

This package includes the following courses:

- VxRail Administration(Virtual Class, 24 Hours|Classroom, 24 Hours)
- VCF 3.9.0 on VxRail Concepts - On Demand Course(On Demand Class, 01 Hours)
- VxRail 7.0.XXX Concepts(On Demand Class, 01 Hours 30 Minutes)
- VxRail 7.0.XXX Feature - REST API(On Demand Class, 02 Hours)
- VCF 4.2 on VxRail Administration(Classroom, 16 Hours|Virtual Class, 16 Hours)

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