D¢LLTechnologies

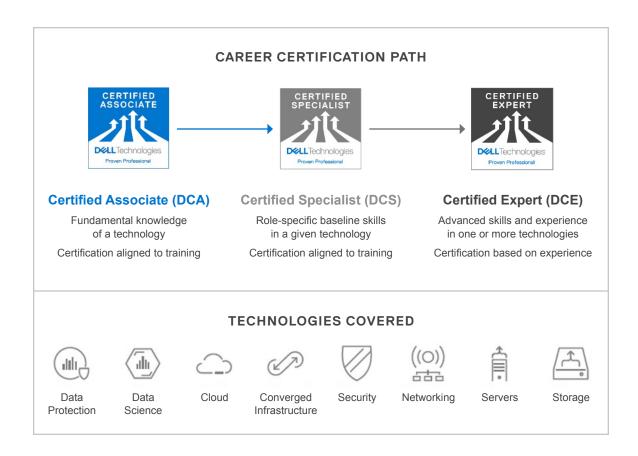


Course Catalog

Realize your full potential.

DELL TECHNOLOGIES PROVEN PROFESSIONAL PROGRAM

Our technology-focused approach offers practical concepts and principles that learners can apply in any IT environment. The training and exams cover Dell Technologies' essential IT infrastructure solutions from the edge to the data center to the cloud.



For more information, visit *Dell.com/Certification*

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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 - 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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SERVER

PowerEdge

Learn to successfully install, manage, and troubleshoot Dell PowerEdge servers with best practice information, instructor-led training and hands-on activities. This course will focus on the latest generations of Dell EMC PowerEdge rack and tower servers.

Dell EMC PowerEdge Installation Administration and Troubleshooting

Delivery Type	Length
Virtual Classroom	3 Days
On Demand	3 Days
Private Classroom	3 Days



Prepares for: Dell Technologies Certified Specialist (DCS) -Implementation Engineer, PowerEdge

PowerEdge VRTX

This course combines both online and instructor-led training to help successfully deploy VRTX converged servers and will provide best practices for configuring the hardware. The course is part of the recommended training path leading to Dell PowerEdge Proven Professional-level certification for PowerEdge servers.

Dell EMC PowerEdge VRTX Installation Implementation and Administration

Delivery Type	Length
On Demand	.5 Day



Prepares for: Dell Technologies Certified Specialist (DCS) -Implementation Engineer, PowerEdge VRTX

Dell EMC PowerEdge MX

Learn how to successfully install, configure, manage, and troubleshoot the Dell EMC PowerEdge MX7000 platform and components. This course also includes the networking switch models and the requirements for networking with the MX7000 platform.

Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration

Delivery Type	Length
Traditional Classroom	3 Days
Virtual Classroom	3 Days
On Demand	3 Days
Private Classroom	3 Days



Prepares for: Dell Technologies Certified Specialist (DCS) -Implementation Engineer, PowerEdge MX Modular

Dell EMC OpenManage Enterprise

This course helps the learner develop a good understanding of the functions and features of OpenManage Enterprise. Lecture and lab activities will feature topics including installation/configuration, navigating the console/using the web interface, describing and using the discovery and inventory process, managing devices and performing tasks. Students will learn and use profiles and configuration templates (compliance and deployment) and the course covers the integration of OME adaptors with SupportAssist Enterprise.

OpenManage Enterprise Features Implementation and Administration

Delivery Type	Length
Traditional Classroom	3 Days
Virtual Classroom	3 Days



Prepares for: Dell Technologies Certified Specialist (DCS) -Systems Administrator, OpenManage Enterprise



SERVER

Dell EMC PowerEdge FX2

The FX2 Installation, Administration and Troubleshooting course combines online and instructor-led training to help successfully deploy FX2 converged servers and provides best practices for configuring the hardware.

Dell EMC PowerEdge FX2 PowerEdge Installation, Implementation and Administration

Delivery Type	Length
On Demand	.5 Day



Prepares for: Dell Technologies Certified Specialist (DCS) – Implementation Engineer, PowerEdge Modular version 1.0 exam

Dell EMC PowerEdge M1000e

The Dell M1000e Installation, Administration and Troubleshooting course combines both online and instructor-led training to help successfully deploy M1000e converged servers and will provide best practices for configuring the hardware.

Dell EMC PowerEdge M1000e Installation Implementation and Administration

Delivery Type	Length
On Demand	.5 Day



Prepares for: Dell Technologies Certified Specialist (DCS) – Implementation Engineer, PowerEdge Modular version 1.0

VIEW ALL POWEREDGE COURSES AND PACKAGES



CONVERGED/HYPERCONVERGED INFRASTRUCTURE

VxBlock

These courses cover administration and management aspects of the VxBlock System. They include an overview of the architecture as well as common administrative tasks that are performed using system element managers and Dell EMC Vision Intelligent Operations. The training prepares participants to successfully complete handson activities for common VxBlock System administrative tasks.

VxBlock Administration

Delivery Type	Length
Virtual Classroom	5 Days



VxBlock 1000 - Classroom Package

The package includes the following courses:

- · VxBlock Administration (Virtual, 5 days)
- Converged Infrastructure Compute Concepts (On Demand, 1 hour)
- Data Protection for VxBlock 1000 Concepts and Features (On Demand, 1 hour)
- Introduction to Dell EMC Converged Systems and Hybrid Cloud Platforms for Digital and IT Transformation (On Demand, 3 hours)
- VxBlock 1000 Administration (AMP) and Orchestration Concepts and Features (On Demand, 1 hour)
- VxBlock 1000 Concepts and Features (On Demand, 1 hour)

Delivery Type	Length
Virtual Classroom	5 Days
On Demand	7 Hours



Prepares for: Dell Technologies Certified Specialist (DCS) – Systems Administrator, VxBlock

PowerFlex 3.x

This course provides a complete view of installing, upgrading and expanding a PowerFlex and Ready Node system. Installation methods for Linux and ESXi environments are introduced and learners will perform hands-on installation and upgrade of a PowerFlex cluster. It also includes working with the MDM, SDS, SDC, volumes, adjusting cache, and administrating the system. A deeper understanding of the architecture and components will be introduced. Labs, simulations, and video demonstrations are also included.

PowerFlex 3.x Implementation and Administration

Delivery Type	Length
On Demand	2 Hours
Traditional Classroom	4 Days
Virtual Classroom	4 Days





CONVERGED/HYPERCONVERGED INFRASTRUCTURE

PowerFlex Appliance

This course provides an overview of the PowerFlex appliance, PowerFlex Manager, and managing a PowerFlex appliance system. Students will learn about the administration of storage, compute, and network. A deeper understanding of the architecture and components will be introduced, including demonstrations and lab simulations to reinforce the learning experience.

PowerFlex Appliance and PowerFlex Manager Administration

Delivery Type	Length
On Demand	3 Hours

PowerFlex Rack

These courses focus on PowerFlex Rack administration and management, presenting tools and processes for monitoring. configuring, and maintaining the PowerFlex Rack.

Power Flex Rack Administration

Delivery Type	Length
On Demand	8 Hours
Traditional Classroom	3 Days
Virtual Classroom	3 Days

VxRail

These courses present 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. Hands-on labs provide a step-by-step walkthrough of the key procedures to manage the cluster.

VxRail Administration

Delivery Type	Length
Traditional Classroom	3 Days
Virtual Classroom	3 Days
On Demand	8 Hours



VxRail Feature: REST API

Delivery Type	Length
On Demand	1 Hour



VxRail System Administrator – Package

The package includes the following courses:

- VxRail Administration Classroom OR Virtual (3 days)
- · Introduction to Dell EMC Converged Systems and Hybrid Cloud Platforms for Digital and IT Transformation (On Demand, 3 hours)
- · VxRail Concepts (On Demand, 1.5 hours)
- VxRail Feature: REST API (On Demand, 1 hour)

Delivery Type	Length
On Demand	5.5 Hours
Traditional Classroom	3 Days
Virtual Classroom	3 Days



Prepares for: Dell Technologies Certified Specialist (DCS) – Systems Administrator, VxRail Appliance

VIEW ALL CI/HCI COURSES AND PACKAGES



Information Storage and Management

ISMv4 is a broad course that provides a comprehensive understanding of the various storage infrastructure components in a modern data center environment. Participants will learn to make informed decisions on storage-related technologies and further specialties among more specialized components. This is a great course for building expertise in the enterprise storage industry.

Information Storage and Management (ISM)

Delivery Type	Length
On Demand	5 Days
Traditional Classroom	5 Days
Virtual Classroom	5 Days



Prepares for: Dell Technologies Certified Associate (DCA-ISM) -Information Storage and Management

VIEW ALL INFORMATION STORAGE AND MANAGEMENT COURSES

Dell EMC Unity XT

Develop 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.

Dell EMC Unity Implementation and Administration

Delivery Type	Length
On Demand	4 Days
Traditional Classroom	4 Days
Virtual Classroom	4 Days



Dell Technologies Certified Specialist (DCS) - Implementation Engineer, Dell EMC Unity Solutions

VIEW ALL UNITY TRAINING COURSES

Disk Library for Mainframe

These on demand courses provide the fundamentals to work with Disk Library for mainframe (DLm) Gen4 products. DLm enables customers to replace their physical tape units and media with disk storage arrays. These courses address topics designed to provide an introduction to the DLm solutions, including the benefits of use, business and technical requirements, architecture and key components, as well as key features and capabilities.

Disk Library for mainframe DLm Fundamentals

Delivery Type	Length
On Demand	1.5 Hours

Disk Library for mainframe DLm Management

Delivery Type	Length
On Demand	2 Hours

Disk Library for mainframe DLm z/OS Administration

Delivery Type	Length
On Demand	1.5 Hours

Disk Library for mainframe DLm Replication Considerations

Delivery Type	Length
On Demand	2 Hours

VIEW ALL DISK LIBRARY FOR MAINFRAME COURSES



Elastic Cloud Storage (ECS)

These courses teach the student how to configure, manage and use ECS. These courses provide details of ECS-features designed to support typical use cases, including global content repository, geoscale object storage with Access Anywhere, and Big Data Analytics.

ECS Administration

Delivery Type	Length
On Demand Class	3 Days
On Demand Lab	3 Days
Traditional Classroom	3 Days
Virtual Classroom	3 Days



ECS Data Client Access - Amazon S3 or OpenStack Swift

These courses cover ECS integration with Amazon S3 or OpenStack Swift. The courses are intended to provide greater detail on the configuration, use, and management capabilities using the management interface and using the APIs. These courses supplement and augment the knowledge provided in the ECS Administration Course.

Delivery Type	Length
On Demand	1.5 Hours



Prepares for: Dell Technologies Certified Specialist (DCS) - Systems Administrator, Elastic Cloud Storage

VIEW ALL ECS COURSES

PowerScale

Students learn about topics including implementing a PowerScale cluster, configuring software features of the OneFS operating system, and managing a cluster on a day-to-day basis. Also covered are PowerScale 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.

PowerScale Administration

Delivery Type	Length
On Demand Class	5 Days
Traditional Classroom	5 Days
Virtual Classroom	5 Days



PowerScale Advanced Administration

Delivery Type	Length
Traditional Classroom	5 Days
Virtual Classroom	5 Days



PowerScale Administration Training - Package

This package includes the following courses:

- · PowerScale Administration (Virtual, 40 hours)
- PowerScale and NetApp Admin Differences (On Demand, 1 hour)
- · PowerScale Concepts (On Demand, 2 hours)

Delivery Type	Length
Traditional Classroom	5 Days
Virtual Classroom	3 Hours



PowerScale Administration Training - Package

This package includes the following courses:

- · PowerScale Administration (On Demand, 40 hours)
- · PowerScale Administration On Demand Lab (25 hours)
- PowerScale and NetApp Admin Differences (On Demand, 1 hour)
- PowerScale Concepts (On Demand, 2 hours)
- PowerScale Implementation (On Demand, 1 hour 30 minutes)

Delivery Type	Length
On Demand	9 Days





PowerScale (Continued)

PowerScale Advanced Administration - Package

This package includes the following courses:

- · PowerScale Advanced Administration (Classroom or On Demand, 40 hours)
- PowerScale Concepts (On Demand, 2 hours)

Delivery Type	Length
Traditional Classroom or Virtual Classroom	5 Days
On Demand	2 Hours



Prepares for: Dell Technologies Certified Specialist (DCS) - Systems Administrator, Elastic Cloud Storage

VIEW ALL POWERSCALE COURSES AND PACKAGES

PowerStore

These courses help storage architects, administrators, or managers to make informed decisions about storing, managing, and protecting digital information in classic, virtualized, and cloud environments.

PowerStore Implementation and Administration

Delivery Type	Length
On Demand	21 Hours
Traditional Classroom	5 Days
Virtual Classroom	5 Days



Prepares for: Dell Technologies Certified Specialist – Implementation Engineer, PowerStore Solutions Version 1.0 (DCS-IE)

VIEW ALL POWERSTORE COURSES

PowerMax

Students receive an introduction to the Dell EMC PowerMax storage array, including PowerMax architecture, configuration options, and replication operations. Instruction for both Solutions Enabler and the redesigned Unisphere for PowerMax interfaces will be provided, including hands-on practice with the GUI.

PowerMax Storage Administrator - Package

This package includes the following courses:

- · PowerMax and VMAX Family Configuration and Business Continuity Administration (Virtual Class or On Demand, 40 hours)
- · Non-Disruptive Migration to PowerMax and VMAX Family (On Demand, 3 hours)
- PowerMax and VMAX Family Local Replication Concepts (On Demand, 1 hour, 30 minutes)
- · PowerMax and VMAX Family Remote Replication Concepts (On Demand, 2 hours)
- PowerMax Concepts and Features (On Demand, 1 hour)
- Solutions Enabler Implementation (On Demand, 2 hours)
- Unisphere for PowerMax Implementation and Administration (On Demand, 2 hours)

Delivery Type	Length
On Demand	10.5 Hours
Virtual Classroom	5 Days



PowerMax Concepts and Features

Delivery Type	Length
On Demand	1 Hour



PowerMax and VMAX Family Configuration and Business Continuity Administration

Delivery Type	Length
On Demand	5 Days
Traditional Classroom	5 Days



Prepares for: Dell Technologies Certified Specialist (DCS) -Implementation Engineer, PowerMax and VMAX Family Solutions

VIEW ALL POWERMAX COURSES AND PACKAGES



SC Series

This course will help students successfully install SC Series storage arrays and provide them with best practices for storage hardware deployment including Fibre Channel zoning and host attachment.

Dell EMC SC Series Implementation and Administration

Delivery Type	Length
On Demand	40 Hours
Classroom	5 Days
Virtual	5 Days



Prepares for: Dell Technologies Certified Specialist (DCS) – Implementation Engineer, SC Series

VIEW ALL SC SERIES COURSES

Storage Resource Management (SRM)

These courses will assist storage administrators to monitor and report on a storage environment using SRM, with various SRM use cases being presented. Demos will cover creation of localized dashboard views and reports, and using them to analyze common storage management issues related to performance, capacity planning, storage chargeback, configuration compliance, service level usage, and alerting.

SRM Storage Resource Management - Package

Delivery Type	Length
On Demand	43.5 Hours

SRM for Storage Administrators

Delivery Type	Length
On Demand	5.5 Hours
Virtual	2 Days

SRM Implementation and Management

Delivery Type	Length
On Demand	5.5 Hours
Virtual	2 Days

SRM Reporting

Delivery Type	Length
On Demand	10.5 Hours
Classroom	3 Days

VIEW ALL SRM COURSES



VPLEX

Gain 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, and provisioning virtualized storage from VPLEX to hosts and performing mobility and mirroring operations on live virtual volumes is emphasized.

VPLEX Administration

Delivery Type	Length
On Demand	3 Days
Traditional Classroom	3 Days
Virtual Classroom	3 Days



VPLEX Systems Administrator Packages

This package includes the following courses:

- VPLEX Systems Administration Instructor Led Training Classroom
 - On Demand (3 Days)
- · VPLEX Concepts and Features On Demand (1 hour)

Delivery Type	Length
On Demand	3 Days
Traditional Classroom	3 Days



Prepares for: Dell Technologies Certified Specialist (DCS) - Systems Administrator, VPLEX

VIEW ALL VPLEX COURSES AND PACKAGES

XtremIO

These courses provide an in-depth understanding of how to leverage and optimize XtremIO X2 features and capabilities in specific application areas. The course provides hands-on coverage of operational aspects of the XtremIO X2 environment and then leads into features and performance optimization. Students learn best practices for system integration with specific application use cases and industry-leading data protection solutions.

XtremIO Solutions Systems Administrator – Package

- · Optimizing Storage Services for Applications with XtremIO and X2 VILT (24 hours)
- Computer Networking Overview (30 minutes)
- · Connectrix Fundamentals (2 hours)
- Ethernet Networking Overview (40 minutes)
- FCIP Protocol and SAN Extension (20 minutes)
- FCoE Protocol and Converged Networks (35 minutes)
- Fibre Channel for Connectrix (1 hour 30 minutes)
- · InfiniBand Networking Overview (25 minutes)
- IP and TCP/UDP Protocols (55 minutes)

Getting Started with AppSync (2 hours)

- iSCSI Protocol (25 minutes)
- PowerPath Configuration and Administration (2 hours 30 minutes)
- · PowerPath Fundamentals (1 hour 30 minutes)
- RecoverPoint Fundamentals (1 hour)
- · XtremIO X2 Administration (1 hour)
- · XtremIO X2 Architecture (1 hour)
- XtremIO X2 Concepts (1 hour)
- XtremIO X2 Features (1 hour)
- XtremIO X2 Integration (1 hour)

Delivery Type	Length
Virtual Classroom/ On Demand	5 Days
On Demand	5 Days



The Virtual Classroom choice is integrated with all the other On Demand courses. All courses are not VILT. If a student chooses the On Demand option for this course, the delivery type is On Demand for all courses.

Prepares for: Dell Technologies Certified Specialist (DCS) – Systems Administrator - XtremIO

VIEW ALL XTREMIO COURSES AND PACKAGES



Avamar

These courses provide participants with the knowledge to build foundational knowledge on Avamar as well as expand their Avamar integration and performance management skills. The courses explore management, administration, performance management procedures and best practices. Hands-on experience in managing Avamar as well as integrating Avamar with various applications and Data Domain is provided through a lab environment.

Avamar Systems Administrator ILT - Package

This package includes the following courses:

- · Avamar Concepts On Demand (2 hours)
- · Avamar Administration Classroom OR Virtual (4 days)

Delivery Type	Length
On Demand	2 Hours
Traditional Classroom	4 Days
Virtual Classroom	4 Days



Avamar Systems Administrator - Package

The package includes the following courses:

- Avamar Concepts On Demand (2 hours)
- · Avamar Administration On Demand (6.5 hours)
- Avamar Administration On Demand Lab (4 hours)

Delivery Type	Length
On Demand	12.5 Hours



Prepares for: Dell Technologies Certified Specialist (DCS) - Systems Administrator - Avamar

VIEW ALL AVAMAR COURSES AND PACKAGES

PowerProtect DD and Data Domain

Gain the knowledge and skills needed to configure and maintain PowerProtect DD and Data Domain systems. The course provides lectures, instructor demonstrations, hands-on exercises, reviews, knowledge checks and pointers to further study.

PowerProtect DD Systems Administrator Classroom - Package

This package includes the following classroom OR virtual class courses:

- · PowerProtect DD System Administration (Classroom or Virtual, 4 days)
- PowerProtect DD and Data Domain Concepts and Features (1.5 hours)
- PowerProtect DD Implementation with Application Software (2.5 hours)
- Cloud Tier Implementation and Administration (2 hours)

Delivery Type	Length
On Demand	6 Hours
Traditional Classroom	4 Days
Virtual Classroom	4 Days



PowerProtect DD Systems Administrator - Package

This package includes the following on demand courses:

- Power Protect DD System Administration (20 hours)
- · PowerProtect DD System Administration On Demand Lab (6 hours)
- · PowerProtect DD and Data Domain Concepts and Features (1.5 hours)
- PowerProtect DD Implementation with Application Software (2.5 hours)
- · Cloud Tier Implementation and Management (2 hours)

Delivery Type	Length
On Demand	32 Hours



Prepares for: Dell Technologies Certified Specialist (DCS) - Systems Administrator - Data Domain

> VIEW ALL POWERPROTECT DD **COURSES AND PACKAGES**



Cloud Disaster Recovery

This course provides an overview of the Cloud DR product.

Cloud Disaster Recovery (DDCDR) Concepts and Features

Delivery Type	Length
On Demand	.5 Hours

VIEW ALL CLOUD DISASTER RECOVERY **COURSES AND PACKAGES**

Data Protection Advisor

Gain an introduction to implementation and management tasks related to Data Protection Advisor (DPA). The course covers installing DPA components, as well as how to work with the product interface while generating and interpreting reports and changing visualizations. Included in the tasks covered are user credential management, configuration of backup components for reporting purposes and remote data collection configuration, as well as exercises on custom report.

Data Protection Advisor ILT - Package

The package includes the following courses:

- Data Protection Advisor (DPA) Concepts (On Demand, 1 hour)
- Data Protection Advisor (DPA) Administration Custom Reports (Virtual, 2 days)
- Data Protection Advisor (DPA) Implementation and Administration (Virtual, 3 days)

Delivery Type	Length
On Demand	1 Hour
Virtual Classroom	5 Days

Data Protection Advisor (Continued)

Data Protection Advisor - Package

- · Data Protection Advisor (DPA) Implementation (On Demand, 3 hours)
- Data Protection Advisor (DPA) Implementation (Lab) (On Demand, 4 hours)
- Data Protection Advisor (DPA) Administration Custom Reports (On Demand, 3 hours)
- Data Protection Advisor (DPA) Administration Custom Reports (Lab) (On Demand, 4 hours)
- Data Protection Advisor (DPA) Concepts (On Demand, 1 hour)
- · Data Protection Advisor (DPA) Administration for the Sys Admin (On Demand, 4 hours)
- Data Protection Advisor (DPA) Administration for the Sys Admin Lab (On Demand, 2 hours)

Delivery Type	Length
On Demand	21 Hours

VIEW ALL DATA PROTECTION ADVISOR **COURSES AND PACKAGES**

Data Protection and Management

Data Protection and Management is a unique course that provides a comprehensive understanding of data protection and availability solutions for traditional and modern data centers.

Data Protection and Management

Delivery Type	Length
On Demand	20 Hours
Traditional Classroom	4 Days
Virtual Classroom	4 Days



Dell Technologies Certified Associate (DCA-DPM) - Data Protection and Management



Integrated Data Protection Appliance (IDPA) Management

Provides lecture and hands-on labs for Integrated Data Protection Appliance (IDPA) admins and users. The course covers an overview of the IDPA model family and administration and use of the IDPA including the System Manager, the Backup Server (Avamar), Protection Storage (Data Domain), Reports and Analytics (Data Protection Advisor), and Search.

Integrated Data Protection Appliance (IDPA) Administration -Instructor Led Training - Package

The package includes the following courses:

• IDPA Management (includes hands-on labs)

Delivery Type	Length
Virtual Classroom	5 Days

VIEW ALL INTEGRATED DATA PROTECTION APPLIANCE COURSES AND PACKAGES

NetWorker

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

NetWorker Implementation Engineer - Classroom - Package

The package includes the following courses:

- · NetWorker Implementation and Management (Classroom or Virtual, 5 days)
- NetWorker Concepts (On Demand, 2 hours)
- · NetWorker Administration Cloud Enablement (On Demand, 3 hours)

Delivery Type	Length
On Demand	5 Hours
Traditional Classroom	5 Days
Virtual Classroom	5 Days



NetWorker Implementation Engineer - Package

The package includes the following courses:

- · NetWorker Administration (On Demand, 7 hours)
- NetWorker Administration Lab (On Demand, 8 hours)
- NetWorker Implementation (On Demand, 2 hours)
- NetWorker Implementation Lab (On Demand, 8 hours)
- · NetWorker Concepts (On Demand, 2 hours)
- · NetWorker Cloud Enablement (On Demand, 3 hours)

Delivery Type	Length
On Demand	30 Hours



Prepares for: Dell Technologies Certified Specialist (DCS) - Systems Administrator - NetWorker

VIEW ALL NETWORKER IMPLEMENTATION AND MANAGEMENT COURSES AND PACKAGES



PowerProtect Data Manager

These courses prepare students to install, configure and manage a PowerProtect Data Manager environment. Students will learn how to install and configure the PowerProtect Data Manager system as well as how to integrate and protect supported applications.

Power Protect Data Manager Training - Package

The package includes the following courses:

- PowerProtect Concepts (On Demand, 15 minutes)
- PowerProtect Data Manager 19.3 Differences (On Demand, 1 hour)
- · PowerProtect Data Manager Concepts (On Demand, 30 minutes)
- · PowerProtect Data Manager Implementation (On Demand, 30 minutes)
- PowerProtect Data Manager Implementation (Lab) (On Demand, 30 minutes)
- · PowerProtect Data Manager MS SQL Integration (On Demand, 30 minutes)
- PowerProtect Data Manager MS SQL Integration Lab (On Demand, 30 minutes)
- PowerProtect Data Manager Features (On Demand, 1 hour)
- PowerProtect Data Manager VM Integration (On Demand, 1.5 hours)
- PowerProtect Data Manager VM Integration Lab (On Demand, 1 hour)
- PowerProtect Data Manager Oracle Integration (On Demand, 1 hour)
- PowerProtect Data Manager Oracle Integration Lab (On Demand, 1 hour)
- PowerProtect Data Manager Upgrade (On Demand, 30 minutes)
- PowerProtect Data Manager Troubleshooting (On Demand, 45 minutes)
- · PowerProtect Data Manager SAP HANA Integration (On Demand, 1.5 hours)
- · PowerProtect Data Manager SAP HANA Integration Lab (On Demand, 45 minutes)
- · PowerProtect Data Manager MS Exchange Integration (On Demand, 1.5 hours)
- PowerProtect Data Manager Kubernetes Integration (On Demand, 1.5 hours)

Delivery Type	Length
On Demand	20 Hours



Prepares for: Specialist, PowerProtect Data Manager Implementation Engineer Proven Professional certification

RecoverPoint

The course covers Classic RecoverPoint concepts and RecoverPoint with VNX and teaches students to manage RecoverPoint environments. This course covers product concepts and theory as well as available operations within RecoverPoint, including configuring protection, failover and recovery, and also includes hands-on labs.

RecoverPoint Systems Administrator ILT - Package

The package includes the following courses:

- · Dell Technologies Proven Professional VUE Exam Voucher
- RecoverPoint Fundamentals (On Demand, 1 hour)
- RecoverPoint Management Online ILT (Virtual, 3 days)

Delivery Type	Length
On Demand	3 Days
Virtual Classroom	3 Days



RecoverPoint Systems Administrator - Package

The package includes the following courses:

- RecoverPoint Fundamentals (On Demand, 1 hour)
- RecoverPoint Management (On Demand 3 days)

Delivery Type	Length
On Demand	3 Days and 1 Hour



Prepares for: Dell Technologies Certified Specialist (DCS) - Systems Administrator - RecoverPoint



RecoverPoint for VMs

Develop skills to manage RecoverPoint environments. The course covers RecoverPoint Classic concepts and theory as well as available operations within RecoverPoint including configuring protection, failover and recovery. The course includes hands-on labs.

RecoverPoint for Virtual Machines - Package

The package includes the following courses:

- RecoverPoint for Virtual Machines Concepts (On Demand, 1 hour)
- RecoverPoint for VMs Implementation (On Demand, 1 hour)
- RecoverPoint for VMs Implementation Lab (On Demand, 3 hours)
- RecoverPoint for Virtual Machines Administration (On Demand, 2 hours)
- RecoverPoint for VMs Management (On Demand Lab, 3 hours)
- RecoverPoint for Virtual Machines 5.2 SP1 Features (On Demand, 30 minutes)

Delivery Type	Length
On Demand	10.5 Hours



NETWORKING AND SECURITY

PowerSwitch - Data Center Switching

This course enables students to implement Dell EMC networking solutions into the data center. It focuses on OS10 and S-Series switch features and functionality. This course prepares learners to successfully configure, manage, and troubleshoot Dell EMC Data Center Networking products using best-practice information.

PowerSwitch - Data Center Switching

Delivery Type	Length
Traditional Classroom	5 Days
Virtual Classroom	5 Days
On Demand	5 Days



Prepares for: Dell EMC Certified Specialist, Networking

PowerSwitch - Campus Switching

This Instructor-led course educates students about topics related to the theory, configuration, and troubleshooting of layer 2 and layer 3 protocols typically found in a Campus networking environment. The theories taught will be put in practice with hands-on labs utilizing Dell EMC N-Series switches.

Dell EMC PowerSwitch Campus Implementation and Administration

Delivery Type	Length
Traditional Classroom	5 Days
Virtual Classroom	5 Days

VIEW ALL NETWORKING COURSES AND PACKAGES

Connectrix Switching (Fibre Channel)

This course is intended for individuals who will perform SAN management activities using vendor or EMC tools. The Connectrix family of switches are managed to provide connectivity to host and storage through a SAN. Fibre Channel, FCIP, iSCSI and FCoE environments are presented for management and switch configuration along with NPIV and NPV. The concepts of EMC SAN best practices, performance monitoring, basic troubleshooting, and security are also addressed.

SAN Management

Delivery Type	Length
Virtual Classroom	5 Days



NETWORKING AND SECURITY

Cyber Recovery and Security

This instructor-led course is designed to educate the learner on various topics related to the theory, configuration, and troubleshooting of layer 2 and layer 3 protocols typically found in a Campus networking environment. The theory learned in lecture will be put to practical application with hands-on labs utilizing Dell EMC N-Series switches.

Cybersecurity Training - Package

The package includes the following courses:

- Introduction to IT Frameworks and NIST (On Demand, 5 hours)
- CompTIA Security + Certification (On Demand)
- PowerProtect DD Virtual Edition Implementation (On Demand, 1.5 hours)
- Implementing the NIST Cybersecurity Framework (On Demand, 5 hours)
- PowerProtect Cyber Recovery Administration (On Demand, 2 hours)
- PowerProtect Cyber Recovery Concepts (On Demand, 30 minutes)
- PowerProtect Cyber Recovery Design (On Demand, 3 hours)
- PowerProtect Cyber Recovery Features (On Demand, 1 hour)
- PowerProtect DD and Data Domain Concepts and Features (On Demand, 1.5 hours)
- User Authentication, Access Controls and Security Standards (On Demand, 2 hours)

Delivery Type	Length
On Demand	21.5 Hours

Implementing the NIST Cybersecurity Framework

Delivery Type	Length
On Demand	5 Hours



CLOUD

Cloud Infrastructure and Services

This course provides an overview of digital transformation, and the role of Cloud in helping organizations meet their overall digital transformation objectives. This "cloud essentials" course will provide knowledge on technologies, processes, and mechanisms required to build a cloud infrastructure. An open approach is used to describe the Cloud Reference Architecture and the concepts and technologies related to cloud computing.

Cloud Infrastructure and Services

Delivery Type	Length
On Demand	2 Days
Traditional Classroom	4 Days
Virtual Classroom	4 Days



Prepares for: Dell Technologies Certified Associate (DCA-CIS) – Cloud Infrastructure and Services

Cloud Infrastructure Planning and Design

This course covers how to successfully design a cloud infrastructure that supports multiple types of services. An "open" approach is used to outline infrastructure, the application platform, and the 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. Additionally, students are provided with opportunities to practice these new skills while performing exercises and labs.

Cloud Infrastructure Planning and Design

Delivery Type	Length
Traditional Classroom	5 Days
Virtual Classroom	5 Days



Prepares for: Dell Technologies Certified Specialist (DCS) – Cloud Architect, Cloud Infrastructure

VIEW ALL CLOUD INFRASTRUCTURE COURSES

Cloud Services Management

This Expert-level course provides the knowledge and skills necessary to plan and design for robust cloud services. Building on the skills acquired in the Cloud Infrastructure Planning and Design specialist-level course, it focuses on governance, organizational, financial, and technology aspects, as well as the management and operation of cloud services. Through lecture, discussions, case studies, design examples, and a series of interactive labs, students learn to design solutions which transform business operations and cloud environments to support a cloud services model.

Cloud Services Management

Delivery Type	Length
On Demand	5 Days
Traditional Classroom	5 Days
Virtual Classroom	5 Days



Cloud Services Management - Package

The package includes the following courses:

- Cloud Services Management (Classroom or Virtual, 5 days)
- Transforming Traditional IT to Digital IT (On Demand, 4 hours)

Delivery Type	Length
On Demand	4 Hours
Traditional OR Virtual Classroom	5 Days



Prepares for: Dell Technologies Certified Expert (DCE) – Cloud Architect, Cloud Services



DATA SCIENCE

Data Science and Big Data Analytics

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.

Data Science and Big Data Analytics

Delivery Type	Length
On Demand	5 Days
Traditional Classroom	5 Days
Virtual Classroom	5 Days



Prepares for: Dell Technologies Certified Associate (DCA-DS) – Data Science and Big Data Analytics

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 do so.

Data Science and Big Data Analytics for Business Transformation

Delivery Type	Length
On Demand	1 Day
Traditional Classroom	1 Day

Advanced Methods in Data Science and Big Data Analytics

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 opensource tools to address big data challenges.

Advanced Methods in Data Science and Big Data Analytics

Delivery Type	Length
On Demand	5 Days
Traditional Classroom	5 Days
Virtual Classroom	5 Days



Prepares for: Dell Technologies Certified Specialist (DCS-DS) – Data Scientist, Advanced Analytics

VIEW ALL DATA SCIENCE AND BIG DATA ANALYTICS COURSES



DATA SCIENCE

Data Engineering

Data engineers design, manage, analyze, and optimize data within an organization. It has become one of the most important and in-demand jobs for global organizations across a wide range of industries. Data Engineers need to possess advanced programming skills and an understanding of data management systems and data pipelines. These courses challenge the learner in everything from data analytics to data preparation for end-users.

Data Engineering Training and Exam Voucher

This package bundles the data engineering on demand courses and associated on demand labs as well as a Dell Technologies proven Professional exam youcher.

The following courses and labs are included in this training package:

- Introduction to Data Engineering (On Demand, 30 minutes)
- · Building Data Pipelines with Python (On Demand, 8 hours)
- Building Data Pipelines with Python (On Demand Lab, 8 hours)
- Data Governance, Security and Privacy for Big Data (On Demand, 8 hours)
- Data Governance, Security and Privacy for Big Data (On Demand Lab, 8 hours)
- Data Warehousing with SQL and NoSQL (On Demand, 8 hours)
- Data Warehousing with SQL and NoSQL (On Demand Lab, 8 hours)
- ETL Offload with Hadoop and Spark (On Demand, 8 hours)
- ETL Offload with Hadoop and Spark (On Demand Lab, 8 hours)
- Processing Streaming and IoT Data (On Demand, 8 hours)
- Processing Streaming and IoT Data (On Demand Lab, 8 hours)
- · Dell Technologies Proven Professional VUE Exam Voucher

Delivery Type	Length
On Demand	80 Hours



Data Engineering Workshop

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.

Data Engineering Workshop

Delivery Type	Length
Virtual Classroom	40 Hours



Prepares for: Dell Technologies Proven Professional Data Engineering Specialist-Level Certification Exam (DES-7DE1)

Artificial Intelligence and Machine Learning (AIML)

Al touches almost every aspect of our daily lives. Al has gone from the lab to real-world use cases in healthcare, farming, public and private sector, and education, among others. Organizations across industries are applying Al to derive deeper insights and make better, faster decisions to distinguish themselves from the competition. We have created these courses with the goal of helping users become experts in data analytics and innovation, while addressing the gap in Al and data literacy skills.

This course covers a 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 offering is an engaging mix of key technologies, hands-on labs, case examples, and business insights.

Artificial Intelligence and Machine Learning

Delivery Type	Length
On Demand	24 Hours
Traditional Classroom	24 Hours
Virtual Classroom	24 Hours

VIEW ALL AIML COURSES



Additional Classes from our Partners

Experience more opportunities for professional growth by leveraging Dell Technologies partnerships.

VMware

VMware specialized courses with advanced capabilities, including customization and management.

Course Options	Delivery Type
VMware vSphere	Traditional or Virtual Classroom
VMware vRealize	Traditional or Virtual Classroom
VMware NSX	Traditional or Virtual Classroom
VMware vSAN	Traditional or Virtual Classroom
VMware Cloud	Traditional or Virtual Classroom
VMware Horizon	Traditional or Virtual Classroom

VIEW ALL VMWARE COURSES



Microsoft

These courses are aligned to Modern Desktop Exam: Modern Desktop Administrator, Microsoft 365 Enterprise Administrator, Messaging Administrator, Teamwork Administrator and Security Administrator. The Windows 10, Office and End User Security course help end-users gain an understanding of IT security fundamentals, and best practices for securely using corporate devices and communications.

Course	Delivery Type	Length
Microsoft Windows 10 and Office 365	On Demand	10 Hours
AZ104T00 Microsoft Azure Administrator	Virtual Classroom	4 Days
AZ-303T00 Microsoft Azure Architect Technologies	Virtual Classroom	5 Days
AZ-304T00 Microsoft Azure Architect Design	Virtual Classroom	4 Days
MS-203T00 Microsoft 365 Messaging	Virtual Classroom	5 Days
MS-700 Managing Microsoft Teams	Virtual Classroom	4 Days
AZ-204T00 Developing Solutions for Microsoft Azure	Virtual Classroom	5 Days
WS-011T00 Windows Server 2019 Administration	Virtual Classroom	5 Days
DP-100 Designing and Implementing a Data Science Solution on Azure	Virtual Classroom	3 Days
MS-100T00 Microsoft 365 Identity and Services	Virtual Classroom	5 Days
MS-101T00 Microsoft 365 Mobility and Security	Virtual Classroom	4 Days

VIEW ALL MICROSOFT COURSES



Cisco

Cisco can help you to build a more dynamic, agile and virtualized real-time infrastructure to align with your business needs. To ensure your success, Dell Technologies provides a large number of offerings that align to Cisco technologies, certifications and crucial job functions. If you do not see a course you need, please contact your Dell Technologies representative.

Course	Delivery Type	Length
Configuring Cisco MDS 9000 Series Switches	Virtual Classroom	4 Days
Implementing and Administering Cisco Solutions	Virtual Classroom	5 Days
Cisco SD-WAN Operation and Deployment	Virtual Classroom	2 Days
Securing Networks with Cisco Firepower Next Generation Firewall	Virtual Classroom	5 Days
Configuring Cisco Unified Computing System Classroom	Virtual Classroom	3 Days

VIEW ALL CISCO COURSES

AWS

Learn current AWS cloud best practices and AWS architecture principles covering the entire process of designing IT infrastructure from beginning to end. The developer course covers how to use AWS SDK for developing secure and scalable cloud applications. Finally, the Operations course helps you utilize AWS tools and capabilities throughout the network management process.

Course	Delivery Type	Length
Architecting on AWS	Virtual Classroom	3 Days
Advanced Architecting on AWS	Virtual Classroom	3 Days
Developing on AWS	Virtual Classroom	3 Days
System Operations on AWS	Virtual Classroom	3 Days

VIEW ALL AWS COURSES



Google Cloud

Develop skills in working with Google Cloud Platform (GCP). Learn the computing and storage services available in Google Cloud Platform, including Google App Engine, Google Compute Engine, Google Kubernetes Engine, Google Cloud Storage, Google Cloud SQL, and BigQuery. Learn important resource and policy management tools, such as the Google Cloud Resource Manager hierarchy and Google Cloud Identity and Access Management.

VIEW ALL GOOGLE CLOUD PLATFORM COURSES

Red Hat

Master the skills to perform essential Linux administration tasks, including installation, establishing network connectivity, managing physical storage, and basic security administration. The course covers basic administration and configuration functions, laying the foundation for rapid deployment of Red Hat Enterprise Linux the key tasks needed to become a full-time administrator of Red Hat Enterprise Linux 8.

Course	Delivery Type	Length
Red Hat System Administration I (RH124)	Virtual Classroom	5 Days
Red Hat System Administration II (RH134)	Virtual Classroom	5 Days



ITIL

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 instructor-led training course.

Course	Delivery Type	Length
ITIL 4 Foundation Certification Course	Virtual Classroom	3 Days

VIEW ALL ITIL COURSES



Service Now

Develop skills in working with the Service Now platform with courses on scripting, Configuration Management Database (CMDB), IT Service Management (ITSM), and many more. Learn how to adopt Service Now, make sound strategic decisions, and drive the most value for your enterprise.

Course	Delivery Type	Length
ServiceNow Fundamentals	Virtual Classroom	3 Days
IT Service Management (ITSM) Fundamentals	Virtual Classroom	2 Days
Configuration Management Database (CMDB) Fundamentals	Virtual Classroom	3 Days
Scripting in ServiceNow Fundamentals	Virtual Classroom	3 Days
Adopting a Platform Owner Mindset	Virtual Classroom	2 Days



Agile and DevOps

Our expert learning consultants help you transform faster and quickly achieve business outcomes. From strategy to staff enablement and training, Dell Technologies Education Services can help you execute your IT, workforce, or application transformation.

We use prescriptive approaches and proven methodologies, combined with Dell Technologies' portfolio and partner ecosystem, to help you achieve real business outcomes. From multi-cloud, applications, DevOps and infrastructure transformations, to business resiliency, data center modernization, automation strategy, analytics, workforce collaboration and user experiences – we're here to help.

When you enlist our learning consultants' help, you benefit from knowledge gained over tens of thousands of customer engagements. This reassurance makes it simpler to align stakeholders and overcome obstacles at every step of your transformation journey.

These Foundational Skills and Tools courses listed below shows the breadth of our offers through our trusted partners. Use Dell as a single source of all your training needs.

Agile
Scrum
SAFe
eXtreme Programming
Lean
Kanban
Value Stream Mapping
Lean IT
DevOps Principles
Agile & Lean
Cross-functional teams
Automation
Continuous improvement
DevOps Practices
CI/CD
Infrastructure as Code
SRE
Design Thinking
Infrastructure
VxRail
PowerMax
PowerEdge
PowerConnect

Virtualization and Software Defined
vSphere
NSX-T
vSAN
Containers
Docker
Kubernetes
Tanzu
Cloud Platform
VCF
AWS
Google
Development Languages
Python
JavaScript
Java
Collaboration
Jira
MS Teams
Confluence
DevOps Toolchain

Source Control Management
Git
GitHub
Bitbucket
Artifact Management
Artifactory
JFrog
Build and Packaging
Maven
Gradle
CI/CD
Jenkins
Gitlab Cl
Bamboo

Infra	astructure Management
Т	- Terraform
V	Realize Automation
P	Ansible
Cor	nfiguration Management
P	Ansible
C	Chef
F	Puppet
Cor	ntinuous Testing
C	Cucumber
S	Selenium
Cor	ntinuous Monitoring
٧	Realize Operations
S	Splunk
	Nagios

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