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LEVERAGING LEARNING PATHS

Take the guesswork out of your education plan.
Learning paths are structured road maps of courses that help you develop a thorough understanding of your selected technologies. They ensure the gradual introduction of complex technologies and challenging concepts from foundation through expert levels. Self-paced modules are a great way to learn the concepts and principles, enabling students in the classroom to spend more time on discussions and hands-on lab activities.

Maximize your storage expertise with advanced-level training.
If you have the knowledge and experience, go straight to the advanced levels. You will learn increasingly complex integration scenarios and application-centric solution best practices.

Validate your knowledge.
Our learning paths are conveniently aligned to Dell EMC Proven Professional certifications. If you choose to take the next step, you already have the knowledge and access to the supporting study materials to prepare for the exam. Free practice tests are available online for all Dell EMC Proven Professional exams.

Utilize blended learning.
Not everybody learns the same way, or at the same pace. Some prefer a classroom environment, others do well with self-paced methods that are easier on their time and budget. Dell EMC Education Services has a highly “blended” approach to learning, offering several training modalities. Some curriculum is offered in more than one way. Choose from traditional classroom training (with hands-on labs) or online learning where the pace of instruction is up to you.

Delivery Modes

The key advantage of blended learning is flexibility. Choose the learning mode that best fits your learning style, time constraints, and budget.

Instructor-Led Training (ILT)—Traditional classroom training, with hands-on labs or case-studies, delivered at one of our many training centers worldwide, by a highly qualified Dell EMC instructor.

Online Instructor-Led Training/Virtual Instructor-led (Online ILT/vILT)—A real-time interactive training experience where students participate online to access the instructor-led virtual classroom. Lecture, discussion, questions and answers, and lab exercises make this a rich and flexible training experience.

Video Instructor-Led Training (Video ILT)—Top-instructor-delivered, Instructor-Led Training (ILT), delivered online, on-demand in streaming format, with an intuitive navigation menu. Lecture content, recorded walk-through lab demonstrations, and student materials are identical to the ILT.

e-Learning—Self-paced training, generally one to three hours which can be accessed directly over the Internet or downloaded to your PC for use at your convenience. Also includes downloadable and printable student guides that can be taken anywhere, anytime.
Welcome to Dell EMC Education Services

We are here to enable your team to meet tomorrow's IT challenges, today. Maximize the return on your technology investments by developing and validating your expertise in information storage and management. Find training by product/technology and based on your role.

1. Plan and Architect—Build your team of trusted advisors

Leverage training and certification ideal for companies and organizations planning to implement private cloud or provide cloud-based IT services.

Cloud Architect Track
- Cloud Infrastructure and Services v2 page 8
- Cloud Infrastructure Planning and Design page 11
- Cloud Services Planning and Design page 11

Service Management for ITaaS
- Establishing Service Management for ITaaS page 12

Data Center Architect
- Enterprise Storage Networking Design page 15
- Enterprise Backup Recovery Design page 15

2. Deploy and Manage—Leverage the full range of technologies found in today's cloud and virtualized information infrastructure

Storage
- Unity Solutions page 17
- Isilon page 19
- VMAX 1&2 Family page 20
- VMAX3 Family page 17
- SAN Connectrix Family page 20
- VNX Family and VNXe page 19
- VPLEX and VPLEXXVE page 26
- RecoverPoint and RecoverPoint for Virtual Machines page 26
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- ScaleIO page 21
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- Vblock Systems page 23
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- Data Domain page 25
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- PowerEdge, Shared Infrastructure page 21
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- MirrorView and SnapView page 19
- RecoverPoint and RecoverPoint for Virtual Machines page 26
- Replication Manager and AppSync page 27
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- Unity Snapshots and Replication page 21
### Integrate and Optimize—Applying best practices

The following advanced-level courses and workshops provide best practices and hands-on experiences to build your technology integration expertise. To understand the content and successfully complete the exercises, the student must have taken the ‘Management’ courses or have equivalent experience.

#### Performance Optimization and Capacity Utilization

<table>
<thead>
<tr>
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<th>Page</th>
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</thead>
<tbody>
<tr>
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<td>Avamar</td>
<td>25</td>
</tr>
<tr>
<td>SAN</td>
<td>20</td>
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</tbody>
</table>

#### Integrate VMware vSphere, SRM, and Dell EMC Storage, Including Data Replication Technologies

<table>
<thead>
<tr>
<th>Platform</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
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<td>VMAX</td>
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</tr>
<tr>
<td>XtremIO</td>
<td>17</td>
</tr>
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</table>

#### Integrate Dell EMC Storage with OpenStack, Oracle, Exchange, and SQL Server

<table>
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<tr>
<th>Platform</th>
<th>Page</th>
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<tr>
<td>VNX</td>
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<td>XtremIO</td>
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<tr>
<td>AppSync</td>
<td>21</td>
</tr>
</tbody>
</table>

Rapid evolution of distinctly different technologies is impacting IT professionals and organizations by creating knowledge gaps that require skills development. Address your learning needs and increase your productivity, while enhancing overall team capability. Expand your knowledge and skills today.

### Cloud

- CloudLink: page 13
- ViPR Controller: page 31
- ViPR SRM: page 31
- Cloud Tiering Appliance: page 28
- Elastic Cloud Storage (ECS): page 31

### Software-defined

- ViPR SRM: page 31
- Service Assurance Suite: page 32
- Smarts Network Configuration Manager: page 32
- Watch4net: page 32

### Virtualization and Cloud

- VMware Training: page 35
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- Microsoft Training: page 35

### Security

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### Big Data

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### Archiving

- Cloud Tiering Appliance: page 29
- EMC Centera: page 29
- SourceOne: page 29

### Cisco and Brocade

- Cisco Unified Computing Systems: page 20
- Cisco MDS and Nexus Switches: page 20
- Brocade: page 20
PURCHASE OPTIONS

We offer several convenient methods to purchase training from Dell EMC Education Services. Purchase options are aligned with how many people require training, whether you or your teams are preparing for Dell EMC certifications, or whether your team of eight or more employees require the same class. If you have any questions about payment or your account, please contact your Education Account Manager.

Are you working with a particular Dell EMC product or solution?

ValuePaks and Video ValuePaks are the right choice. They offer a streamlined curriculum that aligns to our learning paths, and prepares learners for Dell EMC Proven Professional certification. ValuePaks are blended and include e-Learning and one or more Instructor-Led or Online ILT classes.

Video ValuePaks, in addition to being our “green” option, offer a blend of e-Learning courses and videotaped instructor-led classes. Train without traveling!

Do you want to broaden and/or advance your expertise on Dell EMC products and solutions?

<table>
<thead>
<tr>
<th>Subscription*</th>
<th>Allows one designated individual to consume training from the Education Services catalog (Instructor-Led, e-Learning, Online ILT and Video ILTs) for one year from the date of invoice.</th>
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<tbody>
<tr>
<td>V-Subscription*</td>
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</tr>
<tr>
<td>e-Subscription</td>
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Subscription Options**

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<td>1 person</td>
<td>1 year</td>
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</table>

* One-year subscriptions are valid for one (1) year from date of invoice and are assigned to one individual.

Teams requiring additional skills development.

Pre-paid training dollars can be purchased and used as Dell EMC Education currency. Available as Training Units (for EMC training) or Training Credits (for Dell training), both may be redeemed to purchase Dell EMC Education Services training. Valid for one (1) year from date of invoice, they provide a simple and convenient way to purchase training with the flexibility to define a training plan at a later date. An ideal purchase solution if the exact course selection and/or delivery modality preferred by the student is not known at the time of purchase.

<table>
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<th>Training Unit (TU) Options**</th>
<th>1 Training Unit = $100</th>
<th>Training Credit Options**</th>
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<td>812–4035</td>
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</table>

Unable to travel? Take advantage of onsite engagements.

For more information on onsite training engagements, please contact Dell EMC Education Services or ask your Education Account Manager for details.

** For local pricing and purchase options, please contact your Education Account Manager. Pricing is subject to change without notice. Please refer to http://education.EMC.com/Terms for up-to-date information.

Contact Us

Online: http://education.EMC.com/Contact
Phone: 1-888-EMC-TRNG (1-888-362-8764)
You can find contact details for your regional Dell EMC Education Services office at http://education.EMC.com/Contact.

International

<table>
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<th>Region</th>
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<tbody>
<tr>
<td>Asia Pacific</td>
<td>+61 3 8602 8000 (ANZ) +65 6692 3000 (South Asia)</td>
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<tr>
<td>Latin America</td>
<td>+55 11 5189-5119</td>
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<tr>
<td>EMEA</td>
<td>+44 208 758 6080 (UK) +49 6196 4728 666 (Germany)</td>
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<td>Greater China</td>
<td>+86 10 8438 6593</td>
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<tr>
<td>India</td>
<td>+91 90 6737 5064</td>
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<tr>
<td>Japan</td>
<td>+81 44 520 9830</td>
</tr>
<tr>
<td>South Korea</td>
<td>+82 2212 7714</td>
</tr>
</tbody>
</table>
Dell EMC Proven Professional Education And Certification Framework

**Broad and relevant technology coverage**—ensures wider application of your knowledge

- Develop knowledge and skills that will enable you to respond to the challenges of evolving IT infrastructures.
- Evaluate and recommend solutions based on broad technology considerations.
- Adapt to changing requirements in evolving IT infrastructures.

**Role-based specialization**—develops expertise based on best practices

- The complexity of evolving IT infrastructures drives a greater need for IT professionals with specialized knowledge and capabilities. Leverage our modularized curriculum to suit your individual learning needs based on your job role.
- Better understand Dell EMC products, software, and solutions.
- Leverage the full capabilities of Dell EMC products and technologies to maximize your investment.

<table>
<thead>
<tr>
<th>Function</th>
<th>Program</th>
<th>Track</th>
<th>Product Family</th>
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<tbody>
<tr>
<td><strong>PLAN AND DESIGN</strong></td>
<td>EMC</td>
<td>Cloud Architect</td>
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<tr>
<td></td>
<td></td>
<td>Technology Architect</td>
<td>Core Storage, Data Protection</td>
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<tr>
<td></td>
<td>VCE</td>
<td>Design Engineer</td>
<td>Converged Infrastructure</td>
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<td><strong>DEPLOY</strong></td>
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<td>Implementation Engineer</td>
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<td>Product/Technology</td>
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<tr>
<td></td>
<td>VCE</td>
<td>Implementation Engineer</td>
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<td>DELL</td>
<td>Certified</td>
<td>Core Storage, Networking, Servers</td>
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<td><strong>MANAGE</strong></td>
<td>EMC</td>
<td>Cloud Administrator</td>
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<td>Product/Technology</td>
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<td></td>
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<td>Administration Engineer</td>
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<td>Core Storage, Networking, Servers</td>
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<tr>
<td><strong>SUPPORT</strong></td>
<td>EMC</td>
<td>Platform Engineer</td>
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<td>Technical Support Engineer</td>
<td>Scale-out Storage</td>
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<td>Data Science</td>
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</table>

Most paths require an Associate credential as a prerequisite. Refer to the exam roadmap for details.

Employees, Partners, Customers, Industry: Unique Open certifications focused on technology concepts and principles in Information Storage, Cloud, Big Data and Data Protection.

Additional credentials are available. For more information, please visit [http://education.EMC.com](http://education.EMC.com)
Fast-track your IT transformation

Information Storage and Management v3

Gain valuable insight to key technology strategies for traditional and software-defined data centers using the cloud computing reference model.

Take the Information Storage and Management v3 (ISM v3) course to gain valuable insight to key technology concepts and principles such as Software-defined Data Centers, where all infrastructure elements – networking, storage, compute, and security – are virtualized and delivered as a service, and Third Platform technologies — cloud, Big Data, mobile, and social. Earn your EMCISA certification by taking E05-001 Information Storage and Management exam.

Extensive coverage of key technology strategy topics include:
- Data center infrastructure and its elements
- Infrastructure requirements for Third Platform
- Intelligent storage system - traditional and software-defined
- Storage networking protocols and software-defined networking
- Backup, recovery, deduplication, and archive
- Local and remote replication
- Storage security and management

View details

Cloud Infrastructure and Services v2

Develop or transform your skills for building and managing a robust cloud infrastructure.

Take the Cloud Infrastructure and Services (CIS) v2 course to develop a strong understanding of the concepts and principles of building and managing cloud infrastructure. Gain an understanding of the cloud computing reference model. Earn your EMCCIS certification by taking E10-002 Cloud Infrastructure and Services exam.

The course and EMCCIS certification exam topics include:
- Business drivers and characteristics of cloud
- Cloud deployment and service models
- Cloud computing reference model
- Physical, virtual, and control layers of cloud
- Cloud services and service management
- Business continuity solutions for cloud
- Cloud security threats and mechanisms

View details
Take the next step.

Get your Associate level Dell EMC Proven Professional certification.

Data Science and Big Data Analytics

Apply a hands-on practitioner’s approach to the techniques and tools required for analyzing Big Data.

Take the Data Science and Big Data Analytics course to develop the skills and knowledge to drive strategic business decisions and become an immediate contributor on a data science team. Earn your EMCDSA certification by taking E20-007 Data Science and Big Data Analytics exam.

The self-paced DSDBDA course is designed to enable you to:

- Assist in framing a business challenge as an analytics challenge
- Deploy a structured lifecycle approach to data analytics problems
- Apply appropriate analytic techniques and tools to analyze big data
- Tell a compelling story with the data to drive business action
- Use open source tools such as R, Hadoop, and Postgress
- Prepare for Dell EMC Proven Professional Data Science Associate certification (EMCDSA)

Data Protection and Management

Develop or transform your skills in Data Protection concepts, terminology, and architecture.

Take the Data Protection and Management exam if you plan to follow Backup Recovery Specialty tracks as a Technology Architect, Implementation Engineer, or Storage Administrator. Earn your EMCDPM certification by taking E10-005 Data Protection and Management exam.

The course and EMCDPM certification exam topics include:

- Fault-tolerant IT infrastructure
- Data backup, deduplication, replication, archiving and migration
- Cloud-based data protection techniques
- Software-defined data center-specific data protection
- Solutions for protecting Big Data and mobile device data
- Data security

View details
Prove your cloud leadership
Cloud and IT as a Service for Business Transformation

TARGET AUDIENCE: Benefits business leaders, directors, and managers who are responsible for strategic planning related to the transformation of their business and IT organizations.

Gain the skills needed to take advantage of cloud computing and IT-as-a-Service to help drive innovation, agility, and efficiency. This course is targeted at business leaders, directors, and managers who are responsible for strategic planning related to the transformation of their business and IT organizations.

View Details

Cloud Infrastructure Planning and Design

TARGET AUDIENCE: Benefits architects, designers, and consultants involved in planning and designing cloud infrastructure that supports multiple types of services.

Design cloud infrastructures, maintaining the most robust and elastic compute, storage, and network environments.

Prepare for your Specialist-level Cloud Architect (EMCCA) Certification.

View Details

Cloud Services Planning and Design

TARGET AUDIENCE: Benefits those responsible for the design, development, and implementation of a cloud strategy and cloud services.

Become an IT professional who demonstrates the skills necessary to plan and design robust cloud services in a cloud and IT as a service environment.

Prepare for your Expert-level Cloud Architect (EMCCAe) Certification.

View Details

Certification Alignment

<table>
<thead>
<tr>
<th>Level</th>
<th>Exam</th>
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<tbody>
<tr>
<td>Expert</td>
<td>E20-920 Exam</td>
</tr>
<tr>
<td>Specialist</td>
<td>E20-020 Exam</td>
</tr>
<tr>
<td>Associate</td>
<td>E10-002 or E05-001 Exam</td>
</tr>
</tbody>
</table>
Establishing Service Management for ITaaS

TARGET AUDIENCE: Benefits those responsible for design, development, and implementation of services management strategy within their organization.

Gain in-depth knowledge of the critical roles and strategies for establishing a service management front office to support the development of services. Review the foundational back office processes to understand the operational framework necessary to support the delivery of services. Throughout the course, lab exercises, case studies and real world examples will reinforce concepts of service management design and implementation.

Enterprise Hybrid Cloud Solutions

TARGET AUDIENCE: Benefits those responsible for service management, capacity planning and management, process automation, tenant management, chargeback, data protection and monitoring of the Enterprise Hybrid Cloud.

Gain in-depth knowledge of the Enterprise Hybrid Cloud and deliver IT services in a flexible, efficient, and proactive manner by allowing consumers to provision their own resources on-demand. Prepare for your Cloud Administrator (EMCCAD) Certification.

Native Hybrid Cloud

TARGET AUDIENCE: Benefits those looking to learn more about native hybrid cloud.

Explain the business value of the native hybrid cloud, diagram its architecture, describe the components, its roles and the key features of the solution.
CloudLink

TARGET AUDIENCE: Benefits those responsible for designing and installing CloudLink as well as integrating it into an existing environment.

Gain the knowledge required to perform the common tasks when administering a CloudLink SecureVM environment. Also learn about managing users, roles, keys, agents, encrypted volumes, machines and policies.

Modern Apps and Open Source

TARGET AUDIENCE: The Modern Apps course benefits those looking to learn more DevOps. The Open Source course provides a high level perspective on Open Source and Dell EMC’s involvement in the Open Source community.

The course discusses the reasons enterprises are embracing web-scalable modern app development. It provides insight into modern app architectures, programming frameworks and interfaces, leveraging DevOps principles, practices, tools and techniques. It also focuses on the business benefits of modern app design and development practices.

Digital Transformation Series

TARGET AUDIENCE: Benefits all IT professionals interested in learning about basic concepts, principles, strategies and tools for digital transformation.

This set of self-paced courses provides an overview of the following topics:

• Application landscape
• Application deep dive
• Application migration and modernization
• DevOps strategies and tools
• Data analytics strategies and tools
• Data governance and management
Unleash the power of Big Data
Data Science and Big Data Analytics for Business Transformation

TARGET AUDIENCE: Benefits leaders of functional areas wanting to enhance analytics-driven decision-making, business leaders looking to build a new analytics or Data Science capability, and leaders of business intelligence or operations teams looking to raise the level of analytics. Gain the skills and knowledge to better manage analytical efforts, requirements to effectively run projects that leverage Big Data analytics, and deriving business value from big data using data analytics lifecycle and driving innovation using analytics.

Advanced Methods in Data Science and Big Data Analytics

TARGET AUDIENCE: Benefits aspiring Data Scientists, data analysts that have completed the Associate level Data Science and Big Data Analytics course, and computer scientists wanting to learn MapReduce and methods for analyzing unstructured data. Learn Hadoop (including Pig, Hive, and HBase), Natural Language Processing, Social Network Analysis, Simulation, Random Forests, Multinomial Logistic Regression, and Data Visualization. Prepare for your Data Scientist, Advanced Analytics Specialist (EMCDS) Certification.

Isilon Solutions

TARGET AUDIENCE: Benefits storage professionals involved with administration of Isilon storage cluster. Configure network, physical and logical layout, basic and advanced SMB, NFS client access; gain the knowledge for FTP, HTTP configurations; data protection/replication in single and multi-cluster implementations, archive deployment, snapshots and replication, SNMP integration, data protection, analytics, support and monitoring, and troubleshooting. Prepare for your Isilon Solutions Specialist (EMCSA) certification.
Learning in a Flash
Unity Solutions

TARGET AUDIENCE: Benefits storage professionals who plan to install, configure, and manage EMC Unity Systems.

Students will learn the key elements of EMC Unity storage systems features and functionalities, implementation, configuration, storage provisioning, data protection, benefits and use cases, and performance. The curriculum includes hands-on labs.

Prepare for your Unity Solutions Specialist (EMCIE) certification.

View Details

Certification Alignment

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VMAX All Flash and VMAX3 Solutions

TARGET AUDIENCE: Benefits storage professionals implementing and managing VMAX All Flash and VMAX3 storage arrays.

The solution focuses on configuration and business continuity management of VMAX All Flash and VMAX3 storage arrays. You will learn how to manage configuration changes, TimeFinder SnapVX, SRDF, and Non Disruptive Migration (NDM) using SYMCLI and Unisphere for VMAX.

Prepare for your Specialist-level Storage Administrator VMAX All Flash and VMAX3 Solutions certification.

View Details

Certification Alignment

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For advanced-level courses, check here.

XtremIO Solutions

TARGET AUDIENCE: Benefits storage professionals who plan to manage, monitor, and support XtremIO storage arrays.

Students will learn the key elements of provisioning storage from XtremIO arrays to hosts, performing operations on live volumes, and measuring performance. You will also learn monitoring and supporting XtremIO storage arrays.

Prepare for your XtremIO Solutions Specialist (EMCSA) certification.

View Details

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Isilon Solutions

TARGET AUDIENCE: Benefits storage professionals involved with administration of Isilon storage cluster.

Configure network, physical and logical layout, basic and advanced SMB, NFS client access; gain the knowledge for FTP, HTTP configurations; data protection/replication in single and multi-cluster implementations, archive deployment, snapshots and replication, SNMP integration, data protection, analytics, support and monitoring, and troubleshooting.

Prepare for your Isilon Solutions Specialist (EMCSA) certification.

VNX Solutions

TARGET AUDIENCE: Benefits storage professionals who are deploying and managing VNX Unified Storage (VNX with MCx and First Generation VNX) in a Windows, Linux, and VMware ESXi environments.

Configure and manage VNX Series Block based SAN solutions (FC, iSCSI, and FCoE) and File based NAS solutions (NFS and CIFS) in heterogeneous, virtualized, and open systems environments, including array, host access, VNX SnapView, VNX SnapShot and VNX SnapSure solutions. Prepare for your Specialist-level Storage Administrator VNX Solutions Certification.

VNXe Solutions (VNXe 3200)

TARGET AUDIENCE: Benefits IT generalists deploying, managing, and supporting VNXe storage solutions (VNXe2) in open system and virtual host environments.

Install, implement, manage, and perform basic troubleshooting on VNXe storage system in Block-based SAN solutions (FC and iSCSI), and File-based NAS solutions (NFS and CIFS), including data protection using Unified Snapshots and performance and capacity optimization using FAST suite.
Storage Area Network (SAN Connectrix)

**TARGET AUDIENCE:** Benefits any storage professional who deploys and manages multi-site, multi-vendor SAN environments.

Focus on Connectrix family of switches and host to storage connectivity through single and multi-vendor fabrics, Fibre Channel and iSCSI environment scenarios, as well as virtualized environments, and troubleshooting of common management issues. The advanced courses include implementation activities on Dell EMC storage arrays, setting up advanced configuration, diagnosing and troubleshooting SAN performance and maintenance of storage area networks.

Prepare for your Specialist-level Storage Administrator Storage Area Network (SAN) Certification.

![View Details](image)

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For Cisco and Brocade courses, check [here](#).

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Symmetrix VMAX 1 & 2 Solutions

**TARGET AUDIENCE:** Benefits storage professionals implementing VMAX 1/2-based solutions in heterogeneous open systems environments.

Drive efficient utilization of your storage resources using Unisphere for VMAX and Solutions Enabler (command line interface). Configure and manage the local and remote data replication capabilities offered by TimeFinder, SRDF, FAST, FTS, and Open Replicator on VMAX 1/2 systems. In the advanced level, learn to design, size and configure highly available and automated VMAX 1&2 solutions in heterogeneous open system environments.

Prepare for your Specialist- and Expert-level Storage Administrator Symmetrix Solutions Certifications.

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For advanced-level courses, check [here](#).

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Mainframe (VMAX, Disk Library for Mainframe)

**TARGET AUDIENCE:** Benefits any storage professional responsible for management and administration of Symmetrix-based local and/or remote data replication using the TimeFinder and/or SRDF suite of products in z/OS environments.

The Mainframe learning path expands knowledge, skills, and expertise in configuring and managing VMAX 1/2 business continuity solutions in a z/OS environment.

![View Details](image)
ScaleIO 2.x Server-based SAN

TARGET AUDIENCE: Benefits professionals who plan and design, install, implement, and manage and monitor an end-to-end ScaleIO solution with integrated components.

Prepare for your Product Technology Specific ScaleIO 3.x Server-Based SAN certification.

View Details

AppSync

TARGET AUDIENCE: Benefits implementation engineers and SAN/Database administrators who are involved in installing, configuring, and managing AppSync. Topics include implementation and management; integration with Microsoft Exchange, MS SQL, Oracle, VMware vSphere; and transitioning from Replication Manager to AppSync.

View Details

Dell Storage, Networking, Servers

TARGET AUDIENCE: Benefits IT professionals who manage and administer Dell storage, networking and server solutions.

- Networking: Campus and Data Center
- Servers: PowerEdge and Shared Infrastructure

Prepare for your Dell EMC Certified Associate and Professional Certifications.

View Details
Converged and hyperconverged systems
**Vblock Systems**

**TARGET AUDIENCE:** Benefits IT professionals responsible for initializing, deploying and managing Vblock systems.

Learn advanced administration, troubleshooting methodology, detect and recover Vblock from failure events, performance baseline, move database using Storage vMotion, migrate SAN-boot host from one UCS blade to another.

Prepare for your Administration Engineer and Master Administration Engineer Certifications.

---

**VxRail Appliance 4.x**

**TARGET AUDIENCE:** Benefits IT professionals who are responsible for managing and administering a VxRail cluster.

Key topics include management interfaces, managing cluster configurations, resource provisioning and expansion, managing availability, and basic troubleshooting. Recorded lab demos included in the course provide a step-by-step walkthrough of the key procedures to manage the cluster.

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**VxRack Systems**

**TARGET AUDIENCE:** Benefits professionals involved with managing VxRack Systems and its component interfaces.

You will learn to about the physical and logical configuration of VxRack System with FLEX and perform solution alignment and design for specific use cases. Additional training is also available for VxRack System with SDDC.

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**Certification Alignment**

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<td>Foundations Exam</td>
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* VCE Vblock Systems Administration and Management may be taken as preparation for the VCE Converged Infrastructure Administration Engineer credential. In addition to this course, hands-on, practical experience is necessary for success.

**VCE Vblock Systems Advanced Performance and Troubleshooting may be taken as preparation for the VCE Converged Infrastructure Master Administration Engineer credential. In addition, hands-on, practical experience is necessary for success.
Learn to protect your data
Avamar

**TARGET AUDIENCE:** Benefits any storage professional who administers and monitors an Avamar backup solution in single and multi-node environments.

You will learn to configure Avamar, including Avamar Data Store and Avamar Virtual Edition, and Avamar integration with database applications, NDMP and clustered environments. The advanced level course addresses Avamar integration and performance management.

Prepare for your Specialist-level Storage Administrator Avamar Certification.

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NetWorker

**TARGET AUDIENCE:** Benefits any storage professional who deploys and manages NetWorker-based backup and recovery in Windows and/or UNIX environments.

Conduct backups over LAN and/or SAN to targets including tape libraries, disk, and cloud storage systems. Gain insight to recoverability and performance. The advanced level courses address NetWorker integration and performance management and NetWorker cloud enablement.

Prepare for your Specialist-level Storage Administrator NetWorker Certification.

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For NetWorker 9 On-demand Lab, check [here](http://education.EMC.com).

For advanced level courses, check [here](http://education.EMC.com).

For NetWorker 9.x technical differences courses, check [here](http://education.EMC.com).

**View Details**

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Data Domain

**TARGET AUDIENCE:** Benefits any storage professional who installs, integrates, and administers Data Domain systems.

Implement a Data Domain system with key technologies, including NFS, CIFS, DD Boost, VTL, link aggregation and failover, replication, snapshots, fast copy, and recovery functionalities. Monitor Data Domain system activity and performance.

Prepare for your Specialist-level Storage Administrator Data Domain Certification.

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Also available:
- ProtectPoint Implementation and Configuration
- Data Domain Boost for Enterprise Applications Fundamentals
- Data Domain Boost for Enterprise Applications Implementation and Configuration

**View Details**

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VPLEX

TARGET AUDIENCE: VPLEX learning path benefits storage professionals and IT managers involved in managing VPLEX. You will learn management of VPLEX systems, including configuration requirements, architecture, and theory of operations. The advanced level course addresses troubleshooting and performance of VPLEX environments. Prepare for your Specialist-level Storage Administrator VPLEX certification.

VPLEX VE

TARGET AUDIENCE: VPLEX learning path benefits storage professionals and IT managers to enhance enterprise data mobility and access between and across data centers.

RecoverPoint

TARGET AUDIENCE: RecoverPoint learning path benefits any storage professional who manages RecoverPoint local and remote replication. Prepare for your Specialist-level Storage Administrator RecoverPoint Certification.
RecoverPoint for Virtual Machines

The RecoverPoint for Virtual Machines courses prepare you for implementation and management of RecoverPoint Virtual Machines clusters into a VMware environment.

View Details

Replication Manager

TARGET AUDIENCE: Benefits professionals who manage integrated and automated data replication using Replication Manager.

With Replication Manager, you will learn to integrate and automate TimeFinder, SRDF, SnapView, MirrorView, RecoverPoint and other replication technologies into application environments. Working knowledge of array-based local and remote data replication technologies is a prerequisite to this Learning Path.

View Details

Backup Recovery Solutions

TARGET AUDIENCE: Benefits professionals who integrate various applications and technologies in solutions using Dell EMC backup and recovery products into backup and recovery environments.

This set of courses emphasizes design considerations and product-specific best practices.

View Details
Data Protection Advisor

TARGET AUDIENCE: Benefits any storage professional who is responsible for implementing and managing the Data Protection Advisor product. Learn to implement and manage tasks related to the backup option of the Data Protection Advisor product. Prepare for your Data Protection Advisor 6.x Product/Technology-specific Certification.

Enterprise Copy Data Management

TARGET AUDIENCE: Benefits those who will be positioning, designing, deploying, managing, and supporting a solution using eCDM. It also covers design considerations, deployment for Enterprise Copy Data Management 1.0, including information to manage an eCDM-supported environment and integrate supported assets into it, basic troubleshooting and location to retrieve additional information.

Cloud Tiering Appliance (CTA)

Learn about Cloud Tiering Appliance (CTA) for a policy-based file archival or migration solution. You will gain a basic understanding of CTA for a policy-based file archival or migration solution. You will also learn about CTA initial configuration, migration policies, implementing a migration task and CTA best practices and troubleshooting.
SourceOne

**TARGET AUDIENCE:** Benefits administrators of SourceOne who will configure and administer the SourceOne Email Management software.

You will learn to configure SourceOne Email Management, capture and archive email messages, and perform basic searches with SourceOne.

[View Details]

Centera (Content-Addressed Storage)

**TARGET AUDIENCE:** Benefits any storage professional who deploys and manages a Centera content-addressed storage (CAS) environment.

You will learn to configure Centera Virtual Pools and set retention policies and other archival settings to reconcile an overall tiered storage environment.

[View Details]
Software Defined
ViPR Controller 3.0

TARGET AUDIENCE: Benefits IT professionals who plan to manage, deploy, and support ViPR.

Students will learn to configure and manage the base ViPR solution—a lightweight, software only product that transforms existing storage into a simple, extensible, open platform that can deliver fully automated storage services and realize the full potential of the software-defined data center.

View Details

ViPR SRM 4.x Storage Resource Management

TARGET AUDIENCE: Benefits professionals who install, configure, validate, and manage storage resource environments.

This includes qualification of the environment, installation, and licensing of ViPR SRM, installing and using SRM Solution Packs, reporting, monitoring, and troubleshooting. Additional courses include ViPR SRM for Storage Administrators and Advanced Reporting.

Prepare for your Product Technology Specific ViPR SRM 4.x Storage Resource Management certification.

View Details

Elastic Cloud Storage (ECS)

TARGET AUDIENCE: Benefits IT professionals who plan to manage, customize monitor, or use an ECS system for data storage.

Students will learn to configure, manage and use ECS. Additional topics include ECS Data Client Access - Amazon S3, OpenStack Swift.

View Details

Certification Alignment

Product/Technology-specific

E22-265

For ViPR SRM 3.x courses, check here.
Service Assurance (SA) Suite

**TARGET AUDIENCE:** Benefits any IT professional who deploys and leverages end-to-end network management solutions.

You will learn to configure the Service Assurance Suite of software, view and understand the diagnostic analysis results, and resolve network and service issues.

[View Details]

Smarts

**TARGET AUDIENCE:** Based on version 9.2, benefits any IT professional who deploys end-to-end network management solutions.

Gain automated root-cause and impact analysis for server, network, and storage domains with availability and configuration.

[View Details]

Watch4net

**TARGET AUDIENCE:** Benefits all individuals responsible for implementing or supporting Watch4net for networks and also gathering information from various networks and storage sources.

Accelerate the response to IT infrastructure challenges, monitor in real-time the performance of Internet protocol (IP) networks, data centers, applications, clouds, and mobile networks.

[View Details]
ITIL® Certification and Best Practices

TARGET AUDIENCE: Benefits IT professionals and managers responsible for implementing ITIL® best practices.

Learn the basics of IT Service Management. Become certified in ITIL Foundations.

Certification Alignment

The ITIL® Foundations Certification courses include ITIL® certification exam.
Education offerings from
Strategic Businesses
Cloud and Virtualization - VMware, Citrix, Microsoft

Learn to virtualize and move to the cloud more quickly. Courses include Citrix, Dell Wyse, Microsoft and VMware.

- VMware: Derive maximum value from virtualized information infrastructure by investing in VMware education and certification
- Citrix: Leverage standard and customized Citrix training curriculum.
- Microsoft: Increase performance and efficiency and streamline the management of your virtual environment.

Microsoft

Master Microsoft technologies, improve team productivity, and reduce downtime with IT professional and end-user training.

- End-user courses: Migrate more quickly to Microsoft's newest products.
- IT Professional courses: Stay ahead of the IT curve with training.
- Microsoft solutions: Flexible training options to support your team.

Pivotal

Pivotal Training offers an extensive portfolio of role-based courses and certifications to build or enhance your product expertise. Designed by industry experts, our courses are aligned with the latest Pivotal products. Our lab-based curriculum helps maximize skills retention while flexible delivery options make it easy to obtain the training and exams you need—no matter your location or schedule.
RSA

RSA is dedicated to providing practical and relevant courses that support security learning across an enterprise - from end users to administrative staff to security practitioners, analysts, and forensic investigators. RSA’s unique position and presence in the industry allows RSA to offer the best in leading-edge courses delivered by professionals with intense dedication and years of experience.

By becoming an RSA Certified Security Professional, you possess the credentials that demonstrate that you have the knowledge and skills necessary to function as a practical expert in the rapidly growing information security industry.

View Details

Note: For courses related to Dell EMC Storage integration with third party products and products from strategic businesses, check here.
KNOWLEDGE EMPOWERS DIGITAL TRANSFORMATION

Imagine the impact of on-going access to a vast collection of learning content for you and your entire organization to meet rapidly evolving knowledge and skills development needs.

WILL YOU...

EVALUATE  new products and features on demand?
No need to wait for your new product to be purchased. Gain access to required training when you need it. Access a broad spectrum of e-Learning and Video ILT-Stream courses and evaluate new products and features anytime.

REFINE  your skills and business transformation strategy?
With Dell EMC’s unique ‘open’ curriculum, you can learn and apply technology concepts, design principles, and other considerations such as IT as a Service, cloud, big data, and virtualization to a variety IT initiatives involving multiple vendor solutions.

ACCELERATE  time to productivity of new team members?
Take the guesswork out of education planning. With access to more than 35 Learning Paths organized by Dell EMC product and technology, new team members can quickly be brought up to speed by leveraging our proven blended learning model.

ADVANCE  application integration and performance optimization?
Taken Dell EMC courses before? Have experience using Dell EMC technologies? Take our advanced level courses in your preferred learning mode and start leveraging advanced features that you have not had the chance to implement.

GET CERTIFIED  and demonstrate your expertise?
Receive exclusive benefits?
Dell EMC Proven Professional is a leading education and certification program in the IT industry, providing comprehensive coverage of information technologies, virtualization, cloud computing, data science/big data analytics and more.
INVITATION TO LEARN
ON-DEMAND

Gain access to more than 90 learning paths and courses to accelerate every step of your digital transformation.

Modernizing IT infrastructure requires broad understanding of compute, network, storage, applications, and more. From Associate-level to Expert, our courses and learning paths will help you gain the knowledge and skills to Modernize, Automate, and Transform your IT organization.

ON-DEMAND LEARNING CENTER EXPERIENCE

My Video
ILT-Stream Collection

Gain access to the entire library of Dell EMC’s self-paced learning content organized by technology category. Packages enable learners to follow a structured roadmap of courses, called learning paths.

Assess your Knowledge

Assess your level of knowledge using free practice tests. Reinforce what you’ve learned and get a feel for the certification exam experience.

Browse Scheduled Training

Learn in a traditional classroom or online virtual classroom with hands-on labs and case studies, delivered by top Dell EMC instructors.

Schedule an Exam

Learning Paths are conveniently aligned to Dell EMC Proven Professional Certifications. Take the next step. Take an exam.

Student Discussion Community

Visit our Student Discussion Community to search for answers, ask questions, share your learning and certification experience.

Additional learning programs to be introduced periodically.

Ask your Education Sales Consultant for more details.
Enable your team to meet tomorrow’s IT challenges, today.

Dell EMC Education Services offers best-in-class education that improves your readiness and return on your company’s Dell EMC investments. Visit our website at http://education.emc.com or call one of our education consultants to learn more.

**CONTACT US**

**Online:** http://education.EMC.com/Contact  
**Phone:** 1-888-EMC-TRNG (1-888-362-8764)

You can find contact details for your regional Dell EMC Education Services office at http://education.EMC.com/Contact.

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