

Specialist - Implementation Engineer, PowerEdge MX Modular Version 1.0 Certification Description



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Certification Overview

This certification validates the ability to perform intermediate skill level tasks in installing, configuring, maintaining and troubleshooting Dell EMC PowerEdge MX Server products.

Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following Associate level certifications*
 - Associate - PowerEdge Version 1.0
 - Associate - PowerEdge Version 2.0
 - Dell Certified Associate – PowerEdge
 - Dell Certified Professional – PowerEdge
 - Specialist – Implementation Engineer, PowerEdge Version 1.0
 - CompTIA Server+
2. Pass the following Implementation Exam
 - [DES-4421 Specialist - Implementation Engineer, PowerEdge MX Modular Exam](#)

Note: These details reflect certification requirements as of April 26, 2019.

The Proven Professional Program periodically updates certification requirements. *Please check the [Proven Professional CertTracker](#) website regularly for the latest information and for other options to meet the Associate level requirement.

Dell Inc.
Hopkinton
Massachusetts
01748-9103
1-508-435-1000
In North America
1-866-464-7381

DES-4421 Specialist - Implementation Engineer PowerEdge MX Modular Exam

Exam Description



Part 1:

Duration

90 Minutes
(54 Questions)

Pass Score

63%

Part 2:

Duration

30 Minutes
(6 Simulations)

Pass Score

66%

A passing score is required on **both** parts of this exam.

Practice Test

Exam [DES-4421](#)

[Simulator Demo](#)

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Overview

This exam is a qualifying exam for the **Specialist - Implementation Engineer, PowerEdge MX Modular** track.

This exam focuses on installing, configuring and managing the Dell EMC PowerEdge MX server products.

Dell Technologies provides free practice tests to assess your knowledge in preparation for the exam. Practice tests allow you to become familiar with the topics and question types you will find on the proctored exam. Your results on a practice test offer one indication of how prepared you are for the proctored exam and can highlight topics on which you need to study and train further. A passing score on the practice test does not guarantee a passing score on the certification exam.

Products

Products likely to be referred to on this exam include but are not limited to:

- PowerEdge MX Platform Server Components
- OpenManage Enterprise Modular (OME-E)
- PowerEdge MX Platform Networking Components

Exam Topics

Topics likely to be covered on this exam include:

MX-Series Introduction (10%)

- Describe MX7000 hardware chassis components and numbering schemes
- Describe MX7000 compute and storage sled components
- P Describe MX5016s storage sleds and configurations

MX7000 Management (38%)

- Describe the MX Chassis Management Architecture and multi-chassis management groups
- Describe key features of OME-M and how OME-M differs from OME
- Describe storage sled management, Fabric C, mapping drives, and drive/enclosure assigned configuration
- Describe use of slot profiles, daisy chains, simplification, and consolidation, logs, and the iDRAC Service Module
- Describe how to perform firmware updates
- Describe use of key features of iDRAC, touching on considerations specific to MX Modular, including resetting iDRAC
- Explain usage and benefits of the Lifecycle Controller
- Describe nature, use, and benefits of Redfish; topics may include operational model, tree structure, RESTful API, available commands

MX Installation and Configuration (18%)

- Explain the power-on process for the chassis and sleds
- Explain the initial setup on an MX7000 including use of the left rack ear LCD panel
- Describe the concepts for initial chassis configuration using the Chassis Deployment Wizard
- Describe use of compute sleds, including location and supported operating systems

MX Networking (20%)

- List minimum networking requirements based on capabilities of various MX7000 models
- Describe the supported fabrics for Ethernet switches, taking into consideration various modes
- Describe the differences between Full Switch mode and SmartFabric Mode
- Describe how to perform an initial out-of-box setup using OME-M and OS 10 CLI
- Describe the administrative functions available when two or more chassis are interconnected
- Describe switching features on MX switches in Smart Fabric mode using OME-M

MX Troubleshooting (14%)

- Describe how to use OME-M to collect logs, review status and alerts, and check system health
- Describe troubleshooting procedures to resolve hardware issues

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.

[Recommended Training](#)

The following curriculum is recommended for candidates preparing to take this exam.

[Dell Technologies Employees:](#)

Please complete one of the following courses

Course Title	Course Number	Mode	Available
Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration	ES181SVR00151	Virtual Instructor-Led	4/8/19
Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration (On Demand)	ES182SVR00518	On Demand	8/29/19



**Dell Technologies Partner and Customer audiences:
Please complete one of the following courses**

Course Title	Course Number	Mode	Available
Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration	ES181SVR00151	Virtual Instructor-Led (Open Enrollment)	4/8/19
Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration (On Demand)	ES182SVR00518	On Demand	9/20/19
Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration	ESSVRP02318	Instructor-Led up to 10 students with Virtual Labs (On Site)	4/8/19

Note: These exam description details reflect contents as of **April 26, 2019**.

The Proven Professional Program periodically updates exams to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.

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