



Announcing DES-4421 Specialist – Implementation Engineer, PowerEdge MX Modular Exam Retirement

The **Specialist - Implementation Engineer, PowerEdge MX Modular Version 1.0** certification (DES-4421) was updated on October 13, 2023 by a new certification offering. The new certification is **Dell PowerEdge MX Modular Deploy 2023** (D-PEMX-DY-23)

This certification is a part of the [new](#) Proven Professional framework focused on skill and outcome-based solutions certifications that was announced on February 6th.

How will this impact you?

If you have already taken the aligned training or previously attempted the exam for the **Specialist - Implementation Engineer, PowerEdge MX Modular Version 1.0** certification, plan to take the DES-4421 exam by **November 20, 2023**.

- [View the DES-4421 exam description and practice test »](#)

Once achieved, your credential, Specialist – Technology Architect, MidRange Storage Solutions Version 2.0, will not expire.

If you're just beginning your certification journey, choose one of the new exams that aligns closest with the skills and knowledge you're looking to develop.

- [Dell PowerEdge MX Modular Deploy 2023 \(D-PEMX-DY-23\) Exam Description and Practice Test »](#)

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



[Proven Professional Website](#)

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Certification Overview

This certification validates the ability to perform intermediate skill level tasks in configuring, installing, managing, upgrading 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 October 29, 2021.

*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, implementing, administering and troubleshooting 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
- iDRAC9 and Lifecycle Controller

Exam Topics

Topics likely to be covered on this exam include:

MX-Series Portfolio Overview (14%)

- Describe MX7000 hardware chassis components and numbering schemes
- Describe MX7000 compute and storage sled components
- Describe MX5016s storage sleds and configurations
- Describe MX750c compute sled (15G) and features

MX7000 Administration (38%)

- Describe the MX Chassis Management Architecture and multi-chassis management groups
- List and describe key features of OME-M that supports management of the MX7000 chassis
- 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
- Describe the Lifecycle Controller and the main features

- Describe the Telemetry Advance License, OpenID Connect, Left Control Panel, (LCD) PIN management, Right Control Panel Field Replacement Auto-configuration and Proof of possession features in OME-M

MX7000 Installation (17%)

- Describe the infrastructure and out-of-the-box setup on an MX7000
- Describe the initialization installation power-on
- Describe the concepts for initial chassis configuration using the Chassis Deployment Wizard
- Describe use of compute sleds, including location

MX7000 Implementation (17%)

- List and describe hardware requirements of the various MX7000 network configurations
- Describe the fabrics and types of implementation used by the MX7000 switches
- Describe the Switch Operating Modes in MX7000
- Describe Fabrics in Chassis Management Groups and Chassis backup lead
- List and describe initial switch setup requirements
- Describe the SmartFabric Architecture and deployment process
- Describe the VLAN Scale and L2 multicast Operation

MX7000 Troubleshooting (17%)

- Describe minimum POST configuration, OME-M alerts and logs, OME-M health stats messages, LCD alerts and troubleshooting and RCP Auto-config Restoration
- Describe troubleshooting the MX7000 hardware, network issues, iDRAC and Lifecycle Controller

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 Employee, 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	10/4/21
Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration (On Demand)	ES182SVR00518	On Demand	9/27/21

Note: These exam description details reflect contents as of **October 29, 2021**.

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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