

Specialist - Implementation Engineer, PowerProtect DD Version 3.0

Certification Description



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Overview

This Proven Certification provides specialist level certification for implementation of Dell EMC PowerProtect DD systems and will be the desired certification and/or requirement for Partners and employees engaged in implementing PowerProtect DD.

Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following Associate level certifications*+
 - Associate - Data Protection and Management Version 1.0
 - Associate - Data Protection and Management Version 2.0
2. Pass the following Specialist exam on or after April 02, 2021:
 - [DES-DD23 Specialist – Implementation Engineer, PowerProtect DD Exam](#)

Note: These details reflect certification requirements as of February 11, 2022.

*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.

+The Associate - Data Protection and Management certification is strongly recommended as the preferred certification to meet the Associate level requirement; however, the Proven Professional Program will accept the Associate - Information Storage and Management Version 2.0, 3.0, 4.0 or 5.0 certification as an alternative.

Dell Technologies Partners: Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Delivery Competencies provide partners with the ability to deliver services under their own brand or co-deliver with Dell Technologies. Tiered partners are eligible to obtain services delivery competencies upon completing the specific requirements outlined in the [enablement matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

Other Certification Recommendations

Once you have achieved this Certification you may be interested in:

- [Specialist – Implementation Engineer, NetWorker Version 8.0](#)
- [Specialist – Implementation Engineer, Avamar Version 9.0](#)

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

DES-DD23 Specialist - Implementation Engineer, PowerProtect DD 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-DD23](#)

[Simulator Demo](#)

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Overview

This exam is a qualifying exam for the **Specialist - Implementation Engineer, PowerProtect DD (DCS-IE)** Certification.

This exam assesses the knowledge and skills to deploy and manage PowerProtect DD systems. This exam also covers the concepts, features, implementation and administration, and integration with other 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:

- DDOS 7.3
- PowerProtect DD hardware models
- PowerProtect DD Virtual Edition 6.0

Exam Topics

Topics likely to be covered on this exam include:

PowerProtect DD Concepts and Features (15%)

- Explain the key differentiators of the Dell EMC PowerProtect DD deduplication technology, including SISL, DIA, In-line versus Post Process deduplication, and file versus block storage.
- Identify typical Dell EMC PowerProtect DD backup and recovery solutions and describe PowerProtect DD product positioning.
- Identify and describe various Dell EMC PowerProtect DD software options and the functionality they enable.

PowerProtect DD Hardware Installation (15%)

- Describe how to prepare the Dell EMC PowerProtect DD system for installation, including rail and rack the system hardware, and connect and cable the system to external storage.
- Describe how to perform the initial configurations of the Dell EMC PowerProtect DD system, configure the network for administrative access, and verify interoperability with connected devices.

Cloud Tier Implementation and Administration (15%)

- Describe Dell EMC Cloud Tier features, benefits, architecture and use cases.

- Install and configure Dell EMC PowerProtect DD systems with Dell EMC Cloud Tier, including system racking and cabling, configuration of the active and archive tiers, establishment of data movement policies and upgrading the system.
- Perform administrative tasks on Dell EMC PowerProtect DD systems with the Dell EMC Cloud Tier, including adding and expanding storage, adjusting compression settings, deleting or reusing storage units, configuring replication and disaster recovery.

PowerProtect DD Implementation in Backup Environments and Integration with Application Software (15%)

- Distinguish between key backup software components.
- Recognize the packet flow in a typical backup environment with and without a Dell EMC PowerProtect DD system.
- Describe key information points for a backup and recovery solution using DD Boost/OST technology.
- Implement the PowerProtect DD system as a CIFS or NFS to a backup server running Symantec NetBackup and/or Backup Exec, Dell EMC NetWorker, CommVault Simpana, and IBM Tivoli Storage Manager. Validate the backup and recovery functionalities.
- Implement and validate the PowerProtect DD system as a VTL.
- Implement and validate DD Boost in Symantec NetBackup and Backup Exec environments, Oracle Recovery Manager (RMAN) environments, as well as in Dell EMC NetWorker and Dell EMC Avamar environments.
- Implement best practices and system tuning procedures for optimal performance of backup environments including integrated Dell EMC PowerProtect DD systems.

PowerProtect DD System Administration (40%)

- Implement Dell EMC PowerProtect DD system with key protocols, including NFS/CIFS, DD Boost, VTL, and NDMP.
- Implement Dell EMC PowerProtect DD system with key technologies, including data security, link aggregation/failover, fiber channel connections, secure multi-tenancy, DDMC, snapshots, fastcopy, retention lock, sanitization, encryption, storage migration, replication, and recovery functionalities.
- Manage system access and describe and configure autosupport, Support bundle, SNMP, and Syslog.
- Monitor system activity and performance and evaluate the cleaning frequency.
- Verify hardware and analyze and interpret space utilization and compression graphs.
- Monitor PowerProtect DD capacity and estimate storage burn rate.

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.

Please complete all of the following courses

Course Title	Course Number	Mode	Available as of
PowerProtect DD and Data Domain Concepts and Features	MR-1WP-DDFUND	On-Demand	9/23/2019
PowerProtect DD Implementation with Application Software	MR-1WP-DDIAS	On-Demand	4/19/2019
Cloud Tier Implementation and Administration	MR-1WP-DDCTIM	On-Demand	5/14/2019
PowerProtect DD Hardware Installation	MR-1WP-DDHINSTL	On-Demand	9/13/2019

Please complete one of the following courses

Course Title	Course Number	Mode	Available as of
PowerProtect DD System Administration	MR-1CP-DDSADMIN	Classroom	4/28/2019
PowerProtect DD System Administration	MR-1LP-DDSADMIN	Virtual Classroom	4/28/2019
PowerProtect DD System Administration	ESDPSD02523	On-Demand Video	12/17/2020

Note: These exam description details reflect contents as of **February 11, 2022**.

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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