

## Certification Description



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### Certification Overview

Benefits any professional positioning or designing PowerMax and VMAX All Flash Solutions including array configuration and management, as well as business continuity operations using TimeFinder VX and SRDF in heterogeneous open systems and virtual environments.

### Certification Requirements

To successfully complete this certification, a candidate must:

1. Have a sufficient knowledgebase/skill set through hands-on product experience and/or by consuming the recommended training.
2. Pass the Dell PowerMax and VMAX Family Solutions Design 2023 Exam

Note: These details reflect certification requirements as of February 3, 2024.

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

**Dell Technologies Partners:** Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services 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 Competencies upon completing the specific requirements outlined in the [Services Competencies Matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

## Exam Overview

This exam focuses on designing and positioning PowerMax and VMAX All Flash solutions, including storage allocation, monitoring, workload planning and virtualized environment management. The ability to size PowerMax and VMAX All Flash arrays and design SRDF solutions with Business Continuity Solution Designer is assessed. The exam also assesses the ability to demonstrate the usage of Unisphere and Solutions Enabler SYMCLI to manage configuration changes as well as local and remote replication solutions

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

## Products

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

- PowerMax Family
- PowerMaxOS 5978
- SRDF
- Business Continuity Solution Designer (BCSD) Tool
- VMAX All Flash Family
- TimeFinder SnapVX
- Open Replicator
- VMAX Sizer

## Exam Topics

Topics likely to be covered on this exam include:

### **PowerMax and VMAX All Flash Features (20%)**

- Compare and contrast PowerMax and VMAX All Flash models
- Position PowerMax and VMAX All Flash solutions
- Identify PowerMax and VMAX All Flash management tools
- Explain Virtual Provisioning concepts
- Describe device and port management concepts

### **Business Continuity (10%)**

- Overcoming business continuity business challenges
- Describe Remote Replication Network Connectivity options
- Identify SRDF features and solutions
- Explain Open Replicator concepts

### **Replication (20%)**

- Describe TimeFinder SnapVX concepts
- Perform TimeFinder SnapVX operations using management tools
- SRDF/S architecture and design considerations
- RDF/A architecture and design considerations
- SRDF/Metro architecture and design considerations

### **Virtualized Environments (10%)**

- Describe administrative tasks such as replicating and recovering a datastore
- Key considerations for implementing PowerMax and VMAX All Flash in virtualized environments

**Design and Sizing for PowerMax and VMAX All Flash (30%)**

- Monitor PowerMax and VMAX All Flash SRPs, compliance, and data reduction
- Perform Workload Planning activities with Unisphere for PowerMax
- Identify design options and best practices
- Provide overview and data collection techniques for BCSD
- Design SRDF solutions with BCSD
- Create PowerMax and VMAX All Flash sizing and upgrade solutions with VMAX Sizer

**Unisphere for PowerMax (10%)**

- Describe architecture and key features of Unisphere for PowerMax
- Install Unisphere for PowerMax
- Navigate the Unisphere interface
- Perform administrative tasks using Unisphere for PowerMax

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

**Duration**

90 minutes

**Recommended Training**

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

**Option 1: Please complete the following courses.**

Course Title	Course Number	Mode	Available
Unisphere for PowerMax Implementation and Administration	ES132STG00366	On-Demand	July 2018
PowerMax and VMAX All Flash Solutions Design	ES502STG01931	On-Demand	August 27, 2020

Note: These exam description details reflect contents as of February 3, 2024.

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