Certification Overview
This certification will benefit any Implementation Engineer or PowerProtect Data Manager professional implementing or managing the PowerProtect Data Manager product. This certification formally validates the skills such as deploy, configure, troubleshoot, integrate and upgrade a PowerProtect Data Manager solution in various environments including PowerProtect X400 appliance.

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 - Information Storage and Management Version 2.0
   - Associate - Information Storage and Management Version 3.0
   - Associate - Information Storage and Management Version 4.0

2. Pass the following Specialist exam on or after November 02, 2018:
   - DES-3521 Specialist – Implementation Engineer, PowerProtect Data Manager Exam

Note: These details reflect certification requirements as of May 01, 2020.

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.
Overview
This exam is a qualifying exam for the Specialist – Implementation Engineer, PowerProtect Data Manager (DCS-IE) track.

This exam focuses on ensuring individuals are knowledgeable in PowerProtect Data Manager concepts and terminology. The exam requires successful candidate to demonstrate knowledge on deploy, configure, troubleshoot, integrate and upgrade an PowerProtect Data Manager solution in various environments including PowerProtect X400 appliance.

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:

- PowerProtect Data Manager 19.2
- PowerProtect Data Manager 19.3
- PowerProtect X400 1.1
- Cloud Disaster Recovery 19.2

Exam Topics
Topics likely to be covered on this exam include:

**PowerProtect Concepts (12%)**
- Describe PowerProtect and its benefits
- Identify PowerProtect Data Manager and X400 components
- Describe PowerProtect Data Manager Use Cases

**PowerProtect Data Manager and PowerProtect X400 Concepts & Features (17%)**
- Describe PowerProtect Data Manager and X400 Concepts
- Describe PowerProtect Data Manager Features

**PowerProtect Data Manager Installation and Configuration (23%)**
- Describe requirements for PowerProtect Data Manager
- Describe requirements to upgrade PowerProtect Data Manager
  - Explain procedures for PowerProtect Data Manager Installation or Upgrade
  - Deploy PowerProtect Data Manager
  - Upgrade PowerProtect Data Manager
- Describe Post Installation tasks and PowerProtect Data Manager Configuration
- Describe Administration of PowerProtect Data Manager on PowerProtect X400 appliance

**PowerProtect Data Manager Integration (37%)**
- Describe PowerProtect Data Manager Integration with MS-SQL
- Configure PowerProtect Data Manager for MS-SQL database backup
- Restore MS-SQL database with PowerProtect Data Manager
- Describe PowerProtect Data Manager Integration with ORACLE
- Configure PowerProtect Data Manager for ORACLE database backup
- Restore ORACLE database with PowerProtect Data Manager
- Describe PowerProtect Data Manager Integration with VM
- Configure PowerProtect Data Manager for VM data backup
- Restore VM data with PowerProtect Data Manager

**PowerProtect Data Manager Troubleshooting (11%)**
- Troubleshoot PowerProtect Data Manager Administrative and Recovery Issues
- Troubleshoot Virtual Machine Restore

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**

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Note: These exam description details reflect contents as of May 01, 2020.

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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