E05-001 Associate – Information Storage and Management - Exam Retirement

**ATTENTION:** The English language version of the ISMv3 E05-001 exam that supports the Associate - Information Storage and Management Version 3.0 certification will retire on October 04, 2019. Chinese and Japanese versions of the exam will be available until the localized version of the ISM v4 course and exam are available at a later date (TBD).

This exam and certification is replaced by the new DEA-1TT4 exam and Associate - Information Storage and Management Version 4.0 certification available as of April 26, 2019.

**How will this impact me?**
If you have taken the Information Storage and Management v3 course and plan to take the E05-001 Associate - Information Storage and Management v3 Exam, we highly recommend that you take the exam prior to October 04, 2019.

[View the E05-001 exam description and practice test >>](#)

[View the DEA-1TT4 exam description and practice test >>](#)

Once you have achieved Associate - Information Storage and Management Version 3.0 certification, your credential will not expire. As a certified Dell Technologies Proven Professional, you will continue to gain access to exclusive program benefits. Check here for more information on this retirement and training availability time lines.
Associate - Information Storage and Management Version 3.0
Certification Description

Certification Overview
This certification validates the learner’s comprehensive understanding of various storage infrastructure components in traditional, virtualized, and software-defined data center environments. It tests the learner’s knowledge of storage-related technologies in an increasingly complex IT environment, which is fast changing with the adoption of third platform technologies (cloud, Big Data, social, and mobile technologies). It provides a strong understanding of storage technologies and prepares participants for advanced concepts, technologies, and processes.

Certification Requirements
To complete the requirements for this certification you must:

Pass the following Associate level exam on or after August 28, 2015.
• E05-001 Information Storage and Management Version 3 Exam

Note: These details reflect certification requirements as of 8/28/15.

Other Certification Recommendations
This certification will qualify towards most of the below-mentioned Specialist level certification tracks in the Dell EMC Proven Professional program
• Cloud Architect (DECS-CA)
• Systems Administrator (DECS-SA)
• Technology Architect (DECS-TA)
• Implementation Engineer (DECS-CE)
• Technical Support Engineer (EMCTSE) and
• Platform Engineer (DECS-PE)

Please refer to the Certification Framework for more details about individual certifications.

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.
E05-001 Information Storage and Management Version 3 Exam

Exam Description

Overview
This exam is a qualifying exam for the Associate - Information Storage and Management (DECA-ISM) certification.

This exam focuses on information storage and management in a data center. It includes third platform technologies, intelligent storage systems, software-defined storage, storage networking technologies, and various business continuity options – along with security and management of a storage infrastructure. A limited number of questions refer to product examples that are used in the training to reinforce the knowledge of technologies and concepts.

DELL EMC 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.

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

Data Center Infrastructure (15%)
- Introduction to information storage
- Third platform technologies
- Data center environment

Storage Systems (29%)
- Intelligent storage systems
- Block-based storage systems
- File-based storage system
- Object-based and unified storage system
- Software-defined storage

Storage Networking Technologies (20%)
- Fibre Channel SAN
- Internet Protocol SAN
- Fibre Channel over Ethernet SAN

Backup, Archive, and Replication (23%)
- Introduction to business continuity
- Backup and Archive
- Replication

Security and Management Replication (13%)
- Securing storage infrastructure
- Managing storage infrastructure

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 [one] of the following courses**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>Mode</th>
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<tbody>
<tr>
<td>Information Storage and Management v3</td>
<td>MR-1CP-ISMv3</td>
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<td>Information Storage and Management v3 - Online ILT</td>
<td>MR-1LP-ISMv3</td>
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<td>Information Storage and Management v3 - Video ILT</td>
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<td>Video ILT – Stream</td>
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<td>eLearning</td>
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**ISMv3 eLearning series (Module 1 – 16)**

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<th>Course</th>
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<td>ISM v3 Module 1: Introduction to Information Storage</td>
<td>MR-1WP-ISMv3Intro</td>
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<tr>
<td>ISM v3 Module 2: Third Platform Technologies</td>
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Note: These exam description details reflect contents as of **August 28, 2015**.

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Certification Requirements
To complete the requirements for this certification you must:

Pass the following Associate level exam on or after April 26, 2019.
- DEA-1TT4 Associate - Information Storage and Management Version 4 Exam

Note: These details reflect certification requirements as of 4/26/19.

Other Certification Recommendations
This certification will qualify towards most of the below-mentioned Specialist level certification tracks in the Dell EMC Proven Professional program
- Cloud Architect (DCS-CA)
- Systems Administrator (DCS-SA)
- Technology Architect (DCS-TA)
- Implementation Engineer (DCS-CE)
- Platform Engineer (DCS-PE)
- Security (DCS)

Please refer to the Certification Framework for more details about individual certifications.

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Overview
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This exam focuses on information storage and management in a data center. It includes third platform technologies, intelligent storage systems, software-defined storage, storage networking technologies, and various business continuity options – along with security and management of a storage infrastructure. A limited number of questions refer to product examples that are used in the training to reinforce the knowledge of technologies and concepts.

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

Modern Data Center Infrastructure (15%)
- Describe the data classification, elements of a data center, key characteristics of a data center, and key technologies driving digital transformation
- Explain the cloud characteristics, cloud service models, and cloud deployment models
- Explain the key characteristics of big data, components of a big data analytics solution, Internet of Things (IoT), machine learning, and artificial intelligence (AI)
- Describe the building blocks of a modern data center
- Describe a compute system, storage, connectivity in a data center, application, and options to build a modern data center

Storage Networking Technologies (20%)
- Describe Storage Area Network (SAN), FC architecture, FC topologies, zoning, and virtualization in FC SAN
- Describe TCP/IP, IP SAN, iSCSI protocol, components, connectivity, addressing, discovery domains, and VLAN
- Explain the components and connectivities of FCIP and FCoE

Storage Systems (26%)
- Explain the components of an intelligent storage system, RAID, erasure coding, data access methods, scale-up and scale-out architectures
- Explain the components of block-based storage system, storage provisioning, and storage tiering mechanisms
- Explain the NAS components and architecture, NAS file sharing methods,
and file-level virtualization and tiering
- Describe object-based storage device components, functions, operations, and unified storage architecture
- Describe software-defined storage attributes, architecture, functions of the control plane, software-defined extensibility, and software-defined networking functionalities

**Backup, Archive, and Replication (24%)**
- Describe the information availability measurements and key fault tolerance techniques
- Explain backup granularity, architecture, backup targets, operations, and backup methods
- Describe data deduplication and data archiving solutions architecture
- Describe replication uses, and replication and migration techniques

**Security and Management (16%)**
- Describe the information security goals, terminologies, various security domains, and threats to a storage infrastructure
- Explain key security controls to protect the storage infrastructure
- Describe the storage infrastructure management functions and processes

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**Recommended Training**
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