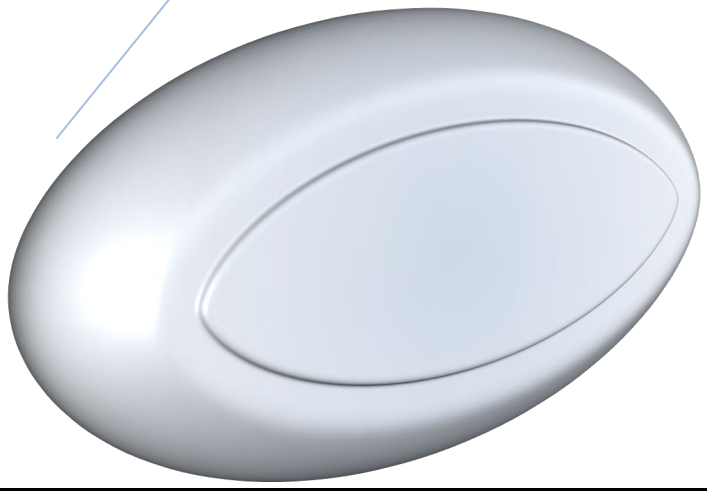
Dell EMC INFORMATION STORAGE & MANAGEMENT



Course Content

The content of this course is designed to support the course objectives and is provided in a role-based structure.

Module 1: Introduction to Information Storage

- Digital data and its types
- Information storage
- Key characteristics of data center
- Evolution of computing platforms

Module 2: Third Platform Technologies

- Cloud computing and its essential characteristics
- Cloud services and cloud deployment models
- Big data analytics
- Social networking and mobile computing
- Characteristics of third platform infrastructure
- Imperatives for third platform transformation

Module 3: Data Center Infrastructure

- Building blocks of a data center
- Compute systems and compute virtualization
- Software-defined data center

Module 4: Intelligent Storage Systems

- Components of an intelligent storage system
- Components, addressing, and performance of hard disk drives and solid state drives
- RAID
- Types of intelligent storage systems
- Scale-up and scale-out storage architecture

Module 5: Block-based Storage System

- Components of block-based storage system
- Storage provisioning and storage tiering

Module 6: File-based Storage System

- Components and architecture of NAS
- NAS file sharing methods
- File-level virtualization and tiering

Module 7: Object-based and Unified Storage

- Components of object-based storage device (OSD)
- Key features of OSD
- Storage and retrieval process in OSD system
- Unified storage architecture

Module 8: Software-defined Storage

- Attributes of software-defined storage
- Architecture of software-defined storage
- Functions of the control plane
- Software-defined storage extensibility

Module 9: Fibre Channel SAN

- Software-defined networking
- FC SAN components and architecture
- FC SAN topologies, link aggregation, and zoning
- Virtualization in FC SAN environment

Module 10: Internet Protocol SAN

- iSCSI protocol, network components, and connectivity
- Link aggregation, switch aggregation, and VLAN
- FCIP protocol, connectivity, and configuration

Module 11: Fibre Channel over Ethernet SAN

- Components of FCoE SAN
- FCoE SAN connectivity
- Converged Enhanced Ethernet
- FCoE architecture

Module 12: Introduction to Business Continuity

- Impact of information unavailability
- Business continuity planning lifecycle
- Eliminating single points of failure
- Application resiliency

Module 13: Backup and Archive

- Backup architecture
- Backup targets and methods
- Data deduplication
- Cloud-based and mobile device backup
- Data archive

Module 14: Replication

- Uses of replication and its characteristics
- Compute-based, storage-based, and network-based replication
- Data migration
- Disaster Recovery as a Service (DRaaS)

Module 15: Securing the Storage Infrastructure

- Information security goals
- Storage security domains
- Threats to a storage infrastructure
- Security controls to protect a storage infrastructure
- Governance, risk, and compliance

Module 16: Managing the Storage Infrastructure

- Storage infrastructure management functions
- Storage infrastructure management processes

***Duration 5 Days. (All versions of ISM can be delivered)**