

Course Description

Course Duration 5 Days

Overview

This unique course provides a comprehensive mastery of the various storage infrastructure components and options in a modern data center environment. Participants will learn to apply storage-related technologies in a fast changing and complex IT environment due to the adoption of new technologies such as cloud, edge computing, Big Data, IoT, Al/ML, and 5G.

This course covers intelligent storage systems, networking technologies business continuity solutions, information security, and storage infrastructure management. The course content takes an open-approach to describe all the concepts and technologies, which are further illustrated and reinforced with Dell product examples.

Audience

This course is intended for:

- Experienced IT professionals directly managing storage infrastructure
- IT professionals seeking to better understand the role of storage infrastructure in the modern data center
- Students and professionals considering a career in the storage industry
- Organization-wide IT teams responsible for planning, designing, deploying, managing, or leveraging storage infrastructure

Prerequisite Knowledge/Skills

To successfully complete this course, a student should have:

- A basic understanding of computer architecture, operating systems, and networking
- Participants with experience in specific segments of storage infrastructure would also be able to assimilate the course material

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Course Objectives

Upon successful completion of this course, participants should be able to:

- Describe business drivers of digital transformation.
- Describe modern data center infrastructure and its elements.
- Explain intelligent storage systems and their types.
- Evaluate various storage networking technologies and approaches.
- Describe software-defined storage and networking.
- Articulate business continuity and data protection solutions (replication, backup, migration, and archiving).
- Describe storage infrastructure security and management processes.

Course Outline

The content of this course is designed to support the course objectives.

- Introduction to Information Storage
 - Data and information
 - Key characteristics of a data center
 - Business drivers of digital transformation
- Business Drivers of Digital Transformation
 - Cloud Computing
 - Big Data and AI/ML
 - IoT, Edge Computing, and 5G
- Modern Data Center Environment
 - Types of compute system, hypervisor, VM, and containers
 - Applications, types of storage and network
 - Software-defined Data Center
 - Modern Data Center Architecture, CI/HCI
- Intelligent Storage Systems
 - Types and components of intelligent storage systems
 - RAID
 - Storage provisioning and tiering
- Block, File, and Object-based Storage System
 - Block storage system components
 - Scale-up and Scale-out NAS
 - Features and components of Object storage system
 - Unified storage system

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- Storage Area Network FC SAN
 - FC SAN Architecture
 - FC topologies and zoning
 - SAN virtualization
- IP SAN, FCoE, and NVMe-oF
 - iSCSI components, protocol stack, and VLAN
 - FCIP connectivity, protocol stack, and FCoE
 - NVMe-oF
- Software Defined Storage and Network
 - Key attributes of SDS, SDS architecture
 - SDN architecture, benefits
- Business Continuity
 - Business continuity overview
 - Fault tolerant IT infrastructure
- Data Protection
 - Data replication
 - Backup and recovery
 - Data deduplication
 - Data archiving and migration
- Storage Infrastructure Security
 - Introduction to information security
 - Storage security domains and threats
 - Key security controls
- Storage Infrastructure Management
 - Introduction to storage management
 - Operations management

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Course Delivery Modes

Course Number	Delivery Mode
ESOCMS03293	Classroom / Virtual Classroom
ESOCMD03294	On-demand Course – Self Paced

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