SCANDINAVIAN ACADEMY
For Training and Development

Course: Information Storage and Management

Code	City	Hotel	Start	End	Price	Language - Hours
841	Budapest (Hungary)	Hotel Meeting Room	2025-10-13	2025-10-24	8450 €	En - 50

COURSE OVERVIEW

Information Storage and Management (ISM) is a unique course that provides a comprehensive understanding of the various storage infrastructure components in data center environments. It enables participants to make informed decisions on storage-related technologies in an increasingly complex IT environment, which is fast changing with the adoption of software-defined infrastructure management and 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. Participants will learn the architectures, features, and benefits of intelligent storage systems including block-based, file-based, object-based, and unified storage; software-defined storage; storage networking technologies such as FC SAN, IP SAN, and FCoE SAN; business continuity solutions such as backup and replication; the highly-critical area of information security; and storage infrastructure management. This course takes an open-approach to describe all the concepts and technologies, which are further illustrated and reinforced with EMC-related product examples.

TARGET AUDIENCE

- Experienced IT professionals, who may not have had exposure to all of the segments of modern storage infrastructure
- Experienced IT professionals managing storage infrastructure and services
- Students and professionals who are looking to pursue a career in the storage industry

- Organization-wide IT teams directly or indirectly responsible for planning, designing, deploying, managing, or leveraging information infrastructure
- Individuals who are seeking EMC Proven Professional Information
- Storage Associate (EMCISA) certification

COURSE OBJECTIVES

- Describe data center infrastructure and its elements
- Describe third platform technologies - cloud, big data, social, and mobile
- Evaluate various types of intelligent storage systems and their deployment
- Describe software-defined storage
- Evaluate various storage networking technologies and their deployment
- Articulate business continuity and archiving solutions
- Describe various security threats and controls in a storage infrastructure
- Describe key processes for managing a storage infrastructure

COURSE CONTENT

Module 1: Introduction to Information Storage

- Digital data and its types
- Information storage
- Key characteristics of data center
- Driving digital transformation

Module 2: Modern Technologies Driving Digital Transformation

- Cloud computing and its essential characteristics
- Cloud services and cloud deployment models
- Big data analytics
- Internet of Things and mobile computing
- Machine learning and artificial intelligence

Module 3: Modern Data Center Environment

- Compute, storage, and networking
- Application services
- Software-defined data center
- Modern data center infrastructure architecture

Module 4: Intelligent Storage Systems

- Components of an intelligent storage system
- 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: Fibre Channel SAN

- FC SAN Overview
- FC architecture
- FC topology and zoning
- SAN Virtualization

Module 7: IP and FCoE SAN

- Overview of TCP/IP
- IP SAN overview
- iSCSI
- FCIP
- FCoE

Module 8: File-based and Object-based Storage System

- NAS components and architecture
- File-level virtualization and tiering
- Object-based and unified storage

Module 9: Software-Defined Storage and Networking

- Software-defined storage
- Software-defined networking

Module 10: Introduction to Business Continuity

- Business continuity overview
- Fault tolerance IT Infrastructure

Module 11: Data Protection Solutions

- Replication
- Backup and recovery
- Data deduplication
- Data archiving
- Migration

Module 12: Storage Infrastructure Security

- Introduction to Information Security
- Storage security domains and threats
- Key security controls

Module 13: Storage Infrastructure Management

- Introduction to storage infrastructure management

- Operations management

The Scandinavian Academy for Training and Development adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training and Development.

Program Timings:

- 9:00 AM to 2:00 PM in Arab cities.
- 10:00 AM to 3:00 PM in European and Asian cities.

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.