



# IBM Storwize V7000 Implementation Workshop (SSE1G)

Course ID #: 0370-715-70-W

Hours: 32

## Course Content

### Course Description:

This course is designed to leverage SAN storage connectivity by integrating a layer of intelligence of virtualization, the IBM Storwize V7000 to facilitate storage application data access independence from storage management functions and requirements. The focus is on planning and implementation tasks associated with integrating the Storwize V7000 into the storage area network. It also explains how to:

- Centralize storage provisioning to host servers from common storage pools using internal storage and SAN attached external heterogeneous storage.
- Improve storage utilization effectiveness using Thin Provisioning and Real-Time Compression
- Implement storage tiering and optimize solid state drives (SSDs) or flash systems usage with Easy Tier.
- Facilitate the coexistence and migration of data from non-virtualization to the virtualized environment.
- Utilize network-level storage subsystem-independent data replication services to satisfy backup and disaster recovery requirements.
- This course lecture offering is at the Storwize V7000 V7.6. level.

### Course Objectives:

After completing this course, you should be able to:

- Outline the benefits of implementing an Storwize V7000 storage virtualization solution.
- Differentiate between the Storwize V7000 2076-524 control enclosure and the 2076-312/324 expansion enclosure models.
- Outline the physical and logical requirements to integrate the Storwize V7000 system solution.
- Implement the Storwize V7000 GUI and CLI system setup to configure the V7000 systems.
- Summarize the symmetric virtualization process to convert physical storage into virtual storage resources.
- Implement volume allocations and map volumes to SAN attached host systems.
- Summarize the advanced system management strategies to maintain storage efficiency, enhance storage performance and reliability.
- Employ data migration strategies to the virtualized Storwize V7000 system environment.
- Implement Copy Services strategies to managed Storwize V7000 system environment remotely
- Employ administration operations to maintain system ability.

### Target Audience:

This intermediate course is for individuals who assess or plan to deploy the IBM Storwize V7000 and leverage storage network virtualization solutions.



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## Prerequisites:

You should have completed:

- Introduction to Storage ([SS01G](#))
- Storage Area Networking Fundamentals ([SN71G](#))

or equivalent knowledge:

Have a basic understanding of concepts associated with open systems, disk storage systems, and I/O operations.

## Topics:

### Day 1

- Welcome
- Unit 1: Introduction to IBM Storwize V7000
- Unit 2: Enclosures and RAID arrays
- Lab 1: System initialization using Service Assistant
- Lab 2: System and GUI/CLI access setup
- Lab 3: Physical storage: Internal
- Lab 4: Physical storage: External
- Lab 5: Storage pools: External
- Lab 6: Create host objects and volumes

### Day 2

- Unit 3: Fabric zoning, iSCSI, and clustered Storwize V7000
- Unit 4: Thin Provisioning, Volume Mirroring, and Real-time Compression
- Lab 7: Access storage from Windows and AIX
- Lab 8: Hybrid pools and Easy Tier
- Lab 9: Access storage using iSCSI
- Lab 10: Volume dependencies and tier migration

### Day 3

- Unit 5: Data migration facilities
- Unit 6: Copy services: FlashCopy and Remote Copy
- Lab 11: Internal storage: RAID options
- Lab 12: Thin Provisioning and Volume Mirroring
- Lab 13: Real-time Compression
- Day 4
- Unit 7: Easy Tier
- Unit 8: Managing the IBM Storwize V7000
- Lab 14: Data migration Import Wizard
- Lab 15: FlashCopy and consistency groups
- Lab 16: Easy Tier and STAT analysis