**EMC SAN Course Content:**

## 1.Fundamentals of Storage Network Foundations

- Direct Attached Storage (DAS)
- Networking Attached Storage (NAS)
- Storage Area Network (SAN)
- SCSI & iSCSI
- FCP, FCIP, IFCP and FCoE
- RAID concepts and Different Raid types
- What is RPO & RTO?

## 2.Fiber Channel

- Understanding Fiber channel protocol
- Fiber channel Layers
- Fiber channel components
- Fiber components Channel topologies & Addressing
- Identify SAN

## 3.Brocade/ Cisco FC Switches Administration

- Understand the Brocade and cisco Switch models
- List basic functions and components
- Identify Switch capabilities
- Brocade zoning
- Presenting LUN's
- Identify WWN, Port IDs, and Domain IDs
- Understand the switch settings
- Use Management Tools

## 4.Intoduction to EMC Clariion Series

- Understanding various Models of EMC Storage arrays
- Understanding EMC CLARiioN Features
- CLARiioN CX Architecture
- Basic CLARiioN Management

## 5.EMC Clariion Management

- Utilities to manage CLARiioN storage system
- Create and manage storage objects with Navisphere manager
- Managing the storage system
- Managing RAID Groups
- Managing LUNS
- Create and manage storage objects with Navisphere CLI
- Managing the storage system
- Managing RAID Groups
- Managing LUNS

**6.EMC CLARiioN**

- Lun masking using Access Logix
- Metalun and migration of LUN on the clariion
- Powerpath management
- Cache management
- Event Monitor
- Navisphere Analyzer

**7.EMC CLARiioN Management ReplicationTechnoloies**

- Overview of Snapview, Configure and Manage snapview
- Overview of SANCopy, Configure SANCopy
- Overview of Mirror View, Configure Mirror View
  Power Path Management
- Overview of EMC Powerpath, Configure & Manage Powerpath
- Powerpath commands

**8.EMC Symmetrix Series Introduction**

- Symmetrix Management Console
- Symmetrix configuration and replication tasks with SMC
- Differences between SMC and the Solutions Enabler command line interface{SYMCLI}
- Principles behind gatekeeper management
- Solutions Enabler daemons and functions of commonly used ones

**9.Symmetrix Confugration Management**

- Hardware components in the host to Symmetrix I/O Path

- Types and uses of Devices and Meta Volumes
- Purposes of mapping, unmapping, and setting port characteristics
- Purpose of masking devices
- Benefits and usage of Auto provisioning groups
- Use of HBA flags set with symaccess and how they work with port
- Provisioning groups

**10.Symmetrix Business Continuity Management**

- TimeFinder/Clone theory of operations and its application
- TimeFinder/Snap theory of operations and its application
- TimeFinder host considerations and configurations
- TimeFinder Consistency technology theory of operations and its application
- SRDF/S theory of operations and its application
- SRDF/A theory of operations and its application
- SRDF consistency technology theory of operations and its application

**11.VNX Foundations**

- Overview of VNX Family and Software Suites and Packs
- VNX and VNXe Architecture and Theory of Operations
- VNX Storage System Features
- Storage Object Management with Unisphere