

## Dell SAN Management (DSM)

Course SSDL005; Three Days; Instructorled

### Overview:

Dell SAN Management is designed to provide IT professionals with the expertise necessary to implement Dell storage into an existing IT infrastructure. This 3-day instructor-led course covers SAN fundamentals and initial setup, configuration, and management of Dell/EMC storage arrays, focusing on the Dell/EMC CX series. This course is available at Dell's (or Dell Partner) facilities around Europe, or onsite at your location.

### Who Should Attend

This course is of value to Technical Support, Systems Administrators, Network Operation Centre Staff and Managers.

### Suggested Prerequisite

N/A

### Course Outline

#### SAN Overview

- Storage Topologies Defined
- Topology comparisons
- FC Protocol Stack Levels
- SAN Architecture
- CX-3 series arrays and DAE4Ps (NEW!)
- Supported RAID levels

#### Array Overview

- Details of CX3 models
- DAE4P features
- Cabling
- Power
- Back end loop strategies
- Private Space
- Cache levels
- Customer Installable Modules
- Initialization Procedures
- Shutdown/Reboot/Restart/Reset Procedures

- **Lab:** Identify different cable types and connectors and properly cable the SAN Switch Config and Zoning (with HBA driver configuration)

- HBA models -PCIe vs PCI-X technology -Update HBA firmware
  - Persistent binding methodologies
  - EMC Support Matrix
  - Switch zoning and configuration -Web tools enhancements -FSPF
- Routing Algorithm -Zoning tape libraries for SAN Backup -Static IP config procedures
- Switch topologies
  - Lab: Install HBA drivers
  - Lab: Zone switches in accordance with Dell/EMC best practices

#### Host-Array Software

- Host Agent registration process
- CLI syntax and scripting
- PowerPath installation, failover and monitoring
- Lab: Install Navi Host Agent and CLI
- Lab: Install Power Path
- Lab: Path failover
- Lab: Powermt syntax

#### Storage Management

- Managing the storage system
- Latest Best Practices
- Host Connectivity
- MetaLUNs and LUN Migration
- Lab: Configure Storage Domain settings
- Lab: Update Global Array Cache settings
- Lab: Bind LUNs to various RAID levels and mask LUN to Host Storage groups
- Lab: Introduce LUNs to Windows and Linux hosts for partitioning
- Lab: Simulate PowerPath failure and use of powermt syntax (per above)
- Lab: Configure alerts using Event Monitor wizard.
- Lab: Stripe and Concatentated MetaLUNs