

## Course Syllabus

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**Duration: 3 days**

**Cost: 28 credits**

Prerequisite: General knowledge of storage technologies

### Module 1

#### NETAPP MATERIAL

- General presentation of product line
- Presentation of the 2000, 3000 & 6000 series
- Disk shelves
- RLM/BMC/SP
- PAM/Flash Cache

### Module 2

#### INTRODUCTION TO NETAPP

- ONTAP
- Differences between NAS & SAN
- Back end / front end
- Connectivity
- Introduction to administration tools
- Introduction to protocols: CIFS, NFS, HTTP/HTTPS/FTP, FCP, iSCSI
- Introduction to disk space (aggregates, volumes, Qtree)
- Introduction to features
- Shutdown and reboot procedures

### Module 3

#### ADMINISTRATION TOOLS

- FilerView
- OnCommand System Manager 2.0
- SSH - RLM/BMC/SP
- Powershell Module
- Computer Management
- Introduction to OnCommand Core Package (Data Fabric Manager)
- Lab exercises

### Module 4

#### DISK SPACE

- Disk management
- WAFL : definition, features
- RAID
- Aggregate
- Volume
- Qtree
- Disk space calculation
- Lab exercises

### Module 5

#### PROTOCOLS

- CIFS (SMB/SMB2)
- NFS
- FCP
- iSCSI
- HTTP/HTTPS/FTP/WebDAV

### Module 6

#### FEATURES

- Thin provisioning
- SnapShot/SnapRestore
- Quota
- Deduplication
- LUN
- SnapMirror
- Cluster
- FlexClones