

40 HORAS

## OVERVIEW

The course prepares former NetApp administrators to perform Isilon cluster administration by describing key differences in administrative approach between NetApp and Isilon. Topics include the configuration of basic and advanced SmartConnect, SMB and NFS client access; HTTP configurations; data protection/replication in single and multi-cluster implementations, archive deployment, snapshots and replication, SNMP integration, data protection and caching, analytics and monitoring, auditing and the job engine. There is particular attention to how certain approaches common to NetApp's design are different in the context of Isilon clusters. This training consists of 8 modules. The total time required to complete this course is approximately 5 days.

## AUDIENCE

This course is intended for customers.

## PREREQUISITE KNOWLEDGE/SKILLS

To understand the content and successfully complete this course, a student must have a suitable knowledgebase/skill set. The student must have an understanding of:

- Networking fundamentals such as TCP/IP, DNS and routing
- An introduction to storage such as NAS/SAN differences and basic storage principles and features
- Installation process of an Isilon cluster.

Students should have completed the following EMC courses:

- Isilon Fundamentals (e-learning)

## COURSE OBJECTIVES

Upon successful completion of this course, participants will be able to:

- Understand the overall Isilon cluster architecture
- Explain the cluster layout and different types of access
- Navigate the details of file access
- Configure cluster features
- Utilize the tools to perform cluster

## COURSE OUTLINE

### Module 1: Introduction to Isilon clusters

- Isilon cluster architecture
- Hardware nodes and disk types
- OneFS operating system
- Management access
- Auditing

### Module 2: Data protection and layout

- Protection and overhead
- Sub pools, data layout, and actual protection
- Caching

### Module 3: Networking

- External interface connections
- DNS and multi-tenancy
- Connectivity to cluster and SmartConnect

### Module 4: Access management

- Access control
- Directory service integration
- Hadoop and HDFS
- Object storage in OneFS

### Module 5: User authentication and file access

- Identity management
- Access utilizing multiple protocols
- SMB and NFS shares

### Module 6: Storage administration

- SmartPools and file pools
- SmartQuotas
- SnapShotIQ
- SyncIQ
- Deduplication

### Module 7: Job Engine

- Job engine architecture
- Built-in jobs
- Jobs and job management

### Module 8: Monitoring

- Installing InsightIQ
- Using InsightIQ and FSA
- ESRS