

## DELIVERY METHODS



### ILT – Instructor-Led

#### Classroom Training

ILT sessions are conducted in a physical classroom environment.



### ILO – Instructor-Led

#### Online Training

ILO sessions are conducted via WebEx in a VoIP environment



### FLEX Classroom™ –

#### Combined ILT & ILO

FLEX Classroom sessions are delivered via ILT and ILO giving you the ultimate flexibility.

# ONTAP Security and Compliance Solutions Administration (OCSA)

ID NA-OCSA Price US\$ 1,011 Duration 2 days

## Course Overview

Learn how to administer NetApp ONTAP® 9 data-management software integrated security and compliance features. Learn how to create a secure IT environment according to Zero Trust principals such as 'least privilege access' and 'encrypt everything'.

This course comprehensively describes the administration, configuration, and management of the integrated data security and compliance features in ONTAP 9, including data retention using SnapLock software and data integrity with autonomous ransomware protection.

## Who should attend

Customers, partners, and/or employees.

## Prerequisites

ONTAP Security and Compliance Solutions Administration is intended for data protection administrators of any experience level.

- [ONTAP Cluster Administration \(ONTAP9ADM\)](#) And [ONTAP Data Protection Administration \(DATAPROT9\)](#) Or,
- [ONTAP Cluster Administration and Data Protection Bundle \(CDOTDP9\)](#)

## Course Objectives

This course focuses on enabling you to do the following:

- Secure an ONTAP based storage system according to Zero Trust principles
- Apply least privilege access control to ONTAP administrators and users
- Secure data in flight
- Secure data at rest
- Enforce compliance with data privacy and retention regulations
- Secure access to data by NAS protocols
- Protect data from corruption by ransomware or malware

## Course Content

In this course, you learn how to administer NetApp® ONTAP® 9 data management software-integrated security and compliance features. You learn how to create a secure IT environment according to Zero Trust principals such as "least privilege access" and "encrypt everything." You also administer, configure, and manage the integrated data security and compliance features in ONTAP 9, which include data retention with SnapLock software and data integrity with autonomous ransomware protection.

## Detailed Course Outline

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## Module 1: Compliance Solutions

- Data Compliance
- Challenges
  - High availability
  - Backup and archive
  - Disaster recovery
  - Compliance
  - Cloud integration
- Data compliance types
  - Data retention
  - Data encryption
- Data protection solutions
- Compliance features

## Module 2: ONTAP Data Retention

- SnapLock compliance software
  - SnapLock Compliance
  - SnapLock Enterprise
- SnapLock architecture
  - Compliance clock
  - Clock architecture
- SnapLock compliance volume
- SnapLock enterprise volume
- File types
  - Regular
  - WORM
  - WORM appendable
- SnapLock settings verification
- Protecting SnapLock volumes
  - Snapshot copies
  - Replication
  - SnapVault
- Advanced SnapLock features
  - Privileged delete feature
  - Audit log
  - Compliance administrator account
  - SnapLock APIs

## Module 3: ONTAP Key Management

- Key management
  - Centralized key management
  - Compliance with mandates

- Investment protection
- OKM
- External Key Server (KMIP)
- Setup wizard

## Module 4: ONTAP Data Encryption

- Storage encryption solutions
- ONTAP 9.1
  - NetApp storage encryption (NSE)
  - NetApp volume encryption (NVE)
  - NetApp SANtricity full disk encryption (FDE)
- FIPS security levels
- Volume encryption demonstration
  - License
  - OKM setup
  - OKM backup
  - Node keys
  - Create encrypted volume
  - SVM key
  - Volume key
  - Encrypt existing volume
  - Decrypt volume
  - Move encrypted volume
  - Re-key encrypted volume
  - Delete

## LABS:

- Configure SnapLock for file retention
- Create aggregates that are compatible with SnapLock software
- Create SnapLock volumes
- Create SnapLock volume shares
- Manage a SnapLock enterprise volume
- Manage a SnapLock compliance volume
- Create a cluster peer relationship
- Create an SVM on cluster2
- Create an SVM peer relationship
- Create a SnapLock for SnapVault protection relationship
- Manage source and destination volumes
- Manage a SnapLock for SnapVault relationship



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- Create an audit log
- Create a compliance administrator account
- Enable the privileged delete feature
- Delete WORM files by using the privileged delete feature
- Configure the onboard key manager
- Display the key management backup information
- Verify the creation of encryption keys for each node