



**Arrow ECS Finland Oy - Education Services**

## **TRAINING OFFERING**

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**You can reach us at:**

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# Data Protection Administration

CODE:	LENGTH:	PRICE:
NEP_OT-DPA	16 Hours (2 days)	€2,040.00

## Description

This intermediate course introduces key concepts and techniques for protecting data on NetApp® ONTAP based storage systems. You learn about the data protection solutions that are integrated in ONTAP software. You also learn about tools to manage ONTAP data protection features.

In the hands-on exercises, you use NetApp ONTAP System Manager and the ONTAP CLI to perform key data protection tasks. This course is updated for ONTAP 9.12.1 software.

## Objectives

- Describe and distinguish the data protection features in ONTAP software
- Administer the appropriate ONTAP data protection feature to address your data protection concern
- Configure NetApp SnapMirror® relationships for disaster recovery and data backup
- Demonstrate SVM DR
- Illustrate NDMP-enabled operations to back up NAS data to tape
- Integrate the cloud-based data protection solutions that complement your ONTAP based storage systems
- Structure NetApp MetroCluster™ components and functionality
- Illustrate NetApp SnapMirror Business Continuity components and functionality

## Audience

NetApp Administrators, Architects and Operators

## Prerequisites

The Cluster Administration class as below should be taken as a pre-requisite.. **OT-CLU-A - ONTAP Cluster Administration**  
In addition the ONTAP Data Protection, NAS & SAN Fundamentals elearning classes accessed FOC via the NetApp Learning Center should be undertaken. Please contact us via the link below for support as required..

**Contact Us**

## Programme

- Data protection introduction
- ONTAP data protection solutions

**Module 0: Welcome and Getting Started** • ONTAP management solutions **Exercises** Checking the exercise equipment  
• SnapMirror overview  
• Configuring SnapMirror relationships  
• Guidelines for intercluster networking

**Module 1: SnapMirror Fundamentals** • Cluster and storage VM peering **Exercises**  
Configuring cluster peering and storage VM peering **Module 2: SnapMirror for Disaster Recovery and Backup**

- SnapMirror for FlexVol volumes
- SnapMirror configuration considerations
- SnapMirror for disaster recovery
- SnapMirror for backup
- Interaction between SnapMirror and other ONTAP features
- S3 SnapMirror
- FabricPool

**Exercises**

- Using SnapMirror to mirror FlexVol volumes
- Performing SnapMirror disaster recovery
- Configuring SnapMirror for unified replication
- Restoring data from a Snapshot copy
- Configuring cluster and storage VM peering for a cascade relationship (optional)
- Configuring a cascade relationship(optional)

- SnapMirror Synchronous
- Configuring SnapMirror Synchronous for disaster recovery

### Module 3: SnapMirror Synchronous for Disaster Recovery

**Exercises** Configuring a SnapMirror Synchronous relationship

- SVM DR introduction
- SVM DR requirements and configuration
- SVM data mobility

**Exercises** Configuring storage VM data recovery

- NDMP fundamentals
- NDMP topologies

### Module 5: ONTAP Backup and Archive Solutions

- SnapMirror Cloud
- Cloud Volumes ONTAP
- Data protection with NetApp BlueXP

### Module 7: ONTAP Business Continuity Solutions

- MetroCluster fundamentals
- MetroCluster operations
- Consistency group management
- SnapMirror Business Continuity introduction
- SnapMirror Business Continuity configuration
- Failover operations and failure scenarios

## Test and Certification

This course is part of the following NetApp Certifications:

- NetApp Certified Data Administrator - ONTAP (**NCDA**)
- NetApp Certified Implementation Engineer – Data Protection Specialist (**NCIE**)

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
16 May 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00
13 Jun 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00
11 Jul 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00
22 Aug 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00
26 Sep 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00
10 Oct 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00
14 Nov 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00
19 Dec 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€2,040.00

## Additional Information

This training is also available as onsite training. Please contact us to find out more.

