

# Implementing Advanced Backup and Recovery Solutions, Rev. 18.11

## Course description

This course teaches students how to identify, recommend, and explain HPE and Partner backup and recovery solutions. It covers data protection and retention theory, supporting technologies, and HPE and Partner software solutions. The course also covers sizing, planning, and best practices.

The course uses participant centered learning.

## Ideal candidate for this course

Typical candidates for this course are IT, facilities or data center professionals who work in and around the data center and who have the responsibility to achieve and improve the availability and manageability of the data center. Typical candidate job roles include but are not limited to Pre-sales Architects, Pre-sales Engineers, Enterprise Architects, Solutions Engineers, and Technology Architects.

Course ID	01113250
HPE product number	H9TH4S
Course format, Typical duration	Select one:ILT – Instructor Led, 3 days VILT – Virtual Instructor Led, 3 days
Skill level	Foundational (FND)
Delivery languages	English
Lab required	No

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## Suggested prerequisites

None

## Topics

- **Module 1: Introduction and theory**
  - List data protection and retention challenges
  - Describe the backup strategy planning process
  - Explain the terms downtime and availability and their business impact
  - Describe the impact of MTBF on the IT environment
  - Use Recovery Point Objective and Recovery Time Objective as parameters for backup planning
  - List and describe the basic backup methods
  - Describe the differences between backup topologies
  - List and describe the disaster recovery levels
- **Module 2: Supporting technologies**
  - Explain the Microsoft Volume Shadow Copy Service (VSS) framework and its integration ways into backup applications
  - Explain the differences between a snapshot and a clone
  - Describe the rules regarding snapshot relationships
  - Describe the key features, benefits, and advantages of Remote Copy (RC)
  - Explain different types of RC implementations
  - Explain the differences between synchronous, periodic asynchronous, asynchronous streaming mode
  - Use synchronous long distance (SLD) mode for replication between three arrays
- **Module 3: Software to support BURA**
  - Discuss the features of software used to support HPE BURA solutions:
    - Data Protector
    - Veeam
  - Explain HPE Cloud Bank Storage
  - List Catalyst integrations

- Discuss iCAS
- **Module 4: Recovery Manager Central**
  - Explain the theory of operation of HPE Recovery Manager Central ( RMC)
  - Describe the way RMC handles data (Synthetic Backup and Multi-streaming Support)
  - Explain the available deployment methods
  - List the system requirements for RMC
  - Describe RMC workflow
  - Explain Express Restore
  - Describe integration with Veeam Explorer
  - Explain the data protection methods such as snapshots and backups
  - Describe Remote Copy configurations used in RMC
  - List RMC-X integrations
  - Describe licenses required
- **Module 5: HPE StoreOnce features and technologies**
  - Describe the benefits and details of deduplication
  - Explain VTL/NAS Replication and Catalyst Copy
  - List newest Catalyst features
  - Describe StoreOnce Security Pack features
- **Module 6: Sizing, planning, and best practices**
  - Describe HPE StoreOnce best practices and planning process
  - Discuss backup performance tuning for HPE StoreOnce
  - Plan HPE StoreOnce replication
  - Plan RMC performance, sizing and placement
  - Compare various data protection solutions

## Objectives

After you successfully complete this course, expect to be able to:

- List data protection and retention challenges
- Describe the backup strategy planning process
- Explain the Microsoft Volume Shadow Copy Service (VSS) framework and its integration ways into backup applications
- Explain the differences between a snapshot and a clone
- Discuss the features of software used to support HPE BURAsolutions:
  - Data Protector
  - Veeam
- Explain the theory of operation of HPE Recovery Manager Central ( RMC)
- Describe the way RMC handles data (Synthetic Backup and Multi-streaming Support)
- Explain the available deployment methods
- List the system requirements for RMC

## How to register

Click on this link to register for this course: <https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=01113250>

## Policies, fees and cancellations

Course fees may vary and are established and collected by the training center delivering the course. Cancellation fees may apply. Contact your HPE Authorized Training Partner for their respective policies.

## For more information

[Contact our program](#)

