

# **Backup and Recovery**

**Duration: 4hrs**

## **Module 1: Introduction to Backup and Recovery**

Importance of Backup and Recovery

- Common Data Loss Scenarios
- Role in System Maintenance and Disaster Recovery
- Backup Terminology (Full, Incremental, Differential, Image)

## **Module 2: Backup Types and Methods**

Full vs Incremental vs Differential Backups

- File-Level vs Image-Based Backups
- Local vs Cloud Backups
- Backup Media: External Drives, Network Shares, Cloud Storage
- Scheduled vs Manual Backups
- Lab 1: Creating a File History Backup and Restoring Files
- Lab 2: Setting up System Restore Points

## **Module 3: Backup Tools and Utilities**

- Built-in Tools: Windows Backup and Restore, File History
- Third-Party Backup Software Overview
- Backup Configuration in Windows OS
- Using Command-Line Tools: robocopy, xcopy, and wbadmin
- Backup Best Practices

## **Module 4: Recovery Concepts and Tools**

- System Restore vs Recovery Drive vs Reset/Refresh
- Creating and Using a System Image
- Recovery Partitions and Boot Options (F8, Recovery Mode)
- Troubleshooting Startup Issues

- Data Recovery from Corrupted Systems
- Lab 1: Using Recovery Drive to Restore System
- Lab 2: Restoring Data from Cloud Backup