Network Masters
KNOWLEDGE AND TECHNOLOGY TOGETHER

Course 20697-1B: Installing and Configuring Windows 10

Exam Code: 70-697

Course Outline

Module 1: Overview of Windows 10
This module introduces the Windows 10 operating system. It describes the new features in Windows 10, and the important changes since Windows 8.1. It describes the use, navigation, and customization of the new, enhanced user interface. This module also mentions the features of Windows 10 that make it beneficial for organizations of different sizes.
Lessons
- Introducing Windows 10
- Navigating the User Interface

Lab : Navigating and Customizing the User Interface
- Navigating the Windows 10 User Interface
- Configuring Start
- Configuring the Desktop

Module 2: Installing Windows 10
This module introduces the different editions of Windows 10, and the differences between them. It describes the requirements and available options for installing Windows 10 on a device. It also provides instructions on installing Windows 10 and upgrading to it. This module discusses points to consider when deciding between an upgrade or migration to Windows 10, and the supported upgrade paths from older versions of the Windows operating system.
Lessons
- Installing Windows 10
- Upgrading to Windows 10

Lab : Installing Windows 10
- Upgrading Windows 7 to Windows 10
- Migrating User Settings

Module 3: Configuring Your Device
This module explains how to configure Windows 10 by using tools such as the Settings app, Control Panel, Windows PowerShell, Remote Server Administration Tools (RSAT) and Group Policy Objects (GPOs). It describes the different types of user accounts, and the benefits of using a Microsoft account. This module also describes Microsoft OneDrive, and how it integrates with Windows 10.

Lessons
- Overview of Tools You Can Use to Configure Windows 10
- Common Configuration Options

- Managing User Accounts
- Using OneDrive

Lab : Configuring Windows 10

- Using the Settings App
- Using Control Panel
- Using Windows PowerShell
- Using GPOs

Lab : Synchronizing Settings with OneDrive

- Connecting a Microsoft Account
- Synchronizing Settings between Devices

Module 4: Configuring Network Connectivity

This module explains the use of tools such as the Settings app, Network and Sharing Center, and Windows PowerShell to configure network settings. It describes the differences between IPv4 and IPv6 settings, and the benefits of IPv6. It also describes name resolution and provides an overview of the Domain Name System (DNS) service. This module describes the configuration of wireless connectivity in Windows 10, and explains remote access methods available in Windows 10, such as Virtual Private Networks (VPNs), DirectAccess, and Remote Desktop.

Lessons

- Configuring IP Network Connectivity
- Implementing Name Resolution
- Implementing Wireless Network Connectivity
- Overview of Remote Access

Lab : Configuring Network Connectivity

- Verify and Test IPv4 Settings
- Configuring Automatic IPv4 Settings
- Configuring and Testing Name Resolution

Module 5: Managing Storage

This module provides an overview of storage options, including hard disks, server-based storage, and virtual hard disks. It describes network storage options, including network-attached storage (NAS) and storage area networks (SANs), and cloud-based storage options, such as OneDrive and Microsoft Azure Storage. Additionally, module 5 describes the management and maintenance of disks, partitions, and volumes, and the configuration and use of the Storage Spaces feature.

Lessons

- Overview of Storage Options
- Managing Disks, Partitions, and Volumes
- Maintaining Disks and Volumes
- Managing Storage Spaces

Lab : Managing Storage

- Adding a Disk

- Creating a Simple Volume
- Compressing a Folder
- Enabling Disk Quotas
- Creating a Storage Space
- Manage Storage Spaces.

Module 6: Managing Files and Printers

This module provides an overview of the file systems supported by Windows 10. It explains how to configure file permissions, the effect of file permissions, how explicit and inherited permissions work, and how to include user and device claims in access permissions. This module also explains how to share folders, the tools to use for sharing a folder, and the effective permissions when a user tries to access data in a shared folder that is protected by file permissions. The last lesson in the module describes how to add and share a printer, and how to manage client and server side printing.

Lessons
- Overview of File Systems
- Configuring and Managing File Access
- Configuring and Managing Shared Folders
- Work Folders
- Managing Printers

Lab : Configuring and Managing Permissions and Shares
- Creating, Managing, and Sharing a Folder
- Using Conditions to Control Access and Effective Permissions

Lab : Configuring and Using Work Folders
- Configuring Work Folders

Lab : Installing and Managing a Printer
- Managing and Using a Printer

Module 7: Managing Apps in Windows 10

This module describes how to install and configure desktop apps and Windows Store apps in Windows 10. It explains how to install apps manually and automatically, and how to use Microsoft System Center Configuration Manager and Microsoft Intune to deploy apps. Additionally, it describes the Windows Store and the way in which you can manage access to it. Lastly, module 7 describes the Internet Explorer 11 and Edge browsers, and explains how to configure and manage both browsers.

Lessons
- Overview of Providing Apps to Users
- The Windows Store
- Web Browsers

Lab : Installing and Updating Apps from the Windows Store
- Sideloading an App
- Signing In with a Microsoft Account
- Installing and Updating Windows Store Apps

Lab : Configuring Windows 10 Web Browsers

- Configuring and Using Microsoft Edge
- Configuring and Using Internet Explorer

Module 8: Managing Data Security

This module explains how the technologies available with Windows 10 work together to protect against data-related security threats. It provides an overview of these threats, and discusses possible mitigations and best practices for dealing with them. It describes defense-in-depth and Encrypting File System (EFS), and how you can use those methods to counter security threats. Additionally, module 8 describes how to configure, administer, and monitor BitLocker drive encryption.

Lessons
- Overview of Data-Related Security Threats
- Securing Data with EFS
- Implementing and Managing BitLocker

Lab : Managing Data Security
- Using EFS
- Using Bitlocker

Module 9: Managing Device Security

This module explains how to mitigate security threats with the use of Security Compliance Manager, Enhanced Mitigation Experience Toolkit, and security settings in GPOs. It also describes User Account Control (UAC), and how to configure it. This module also explains the use of AppLocker to configure application usage and restrictions.

Lessons
- Using Security Settings to Mitigate Threats
- Configuring UAC
- Configuring Application Restrictions

Lab : Managing Device Security
- Creating Security Policies
- Testing Security Policies
- Configuring UAC Prompts

Module 10: Managing Network Security

This module describes common network-related security threats, and describes options to mitigate them. It describes Windows Firewall, IPsec connection security rules, and Windows Defender, and how to configure these tools to manage network security.

Lessons
- Overview of Network-Related Security Threats
- Windows Firewall
- Connection Security Rules
- Windows Defender

Lab : Managing Network Security
- Creating and Testing Inbound Rules

- Creating and Testing Outbound Rules
- Creating and Testing Connection Security Rules
- Configuring Windows Defender

Module 11: Troubleshooting and Recovery

This module describes device drivers, and how to use the Device Manager to view, configure, update, and roll back device drivers. It explains file-recovery methods in Windows 10, such as Backup and Restore, File History, and Previous Versions. This module also explains features such as System Restore, Startup Recovery, and System Image Recovery, and describes how to use restore points to roll back device configuration.

Lessons
- Managing Devices and Drivers
- Recovering Files
- Recovering Devices

Lab : Troubleshooting and Recovery
- Managing Device Drivers
- Using File History to Recover Files
- Using Previous Versions to Recover Files
- Recovering a Device with a Restore Point
- Using the Advanced Start-up Options to Recover a Device

Module 12: Maintaining Windows 10

This module describes Windows Update, and Windows Update for Business, and how to configure settings for updates. It describes how to use Windows Server Update Services (WSUS), Configuration Manager, or Intune to distribute updates within organizations. This module also explains how to use the Action Center, Event Viewer, and Performance Monitor in Windows 10.

Lessons
- Updating Windows
- Monitoring Windows 10
- Optimizing Performance

Lab : Maintaining Windows 10
- Configuring Updates for a Single Device
- Configuring Updates with GPOs
- Configuring Updates with GPOs
- Monitoring Reliability and Performance