Network Masters
KNOWLEDGE AND TECHNOLOGY TOGETHER

Windows 10 (Exam MD-100)

Module 1: Installing Windows

This module covers installing the Windows 10 OS. Students will learn the different editions of Windows 10, requirements, and new features introduced. This module covers how to install the OS, as well as methods for migrations and upgrading. Students will also learn about common tools used in the deployment process.

Lessons

Introducing Windows 10
Installation Options
Requirements for Windows Features
Installation Process and Media
Upgrading to Windows 10

Lab : Installing Windows 10

Upgrading Windows 7 to Windows 10
Migrating User Settings

Module 2: Updating Windows

In this module, Students will learn about keeping Windows 10 up-to-date. Students will be introduced to the new Windows servicing model and how it applies to various scenarios. Students will learn the various different methods for updating Windows and applications, as well as managing updates using tools like group policy and Windows Update for Business.

Lessons

Windows Servicing Model
Updating Windows
Applying Applications and Windows Updates

Lab : Updating Windows 10

Configuring Updates for a Single Device
Configuring Updates with GPOs

Module 3: Post-installation Configuration and Personalization

This module covers common post-installation tasks in Windows 10. Students will learn how to customize the user interface, as well as using the control panel and settings app to configure common OS settings. This course will also introduce students to Windows PowerShell.

Lessons

Customize the Windows 10 UI.
Configure device specific settings such as power plans and mobile device options.
Use the Windows control panel and setting app to configure settings.
Describe using Windows PowerShell.

Lab : Configuring Windows 10
Using the Settings App
Using Control Panel Using Control Panel
Using Windows PowerShell
Course Conclusion

Module 4: Configuring Peripherals and Drivers

This module will cover device configuration. Students will learn how device drivers work and how to install them. Students will also be introduced to managing and configuring hardware peripherals such as printers.

Lessons
Managing Devices and Drivers
Managing Printers

Module 5: Configuring Networking

In this module, Students will learn about networking concepts. This module will introduce to IPv4 and IPv6, and concepts like DNS. Students will learn how to configure network settings in Windows, as well as learn about wireless network technologies. The module will conclude with methods of managing Windows remotely.

Lessons
Configure IP Network Connectivity
Implement Name Resolution
Implement Wireless Network Connectivity
Remote Access Overview
Remote Management

Module 6: Configuring Storage

This module covers storage configuration and management in Windows 10. Students will be introduced to local, cloud and virtual storage options. This course will also cover configuring storage on client devices and introduce storage spaces.

Lessons
Overview of storage options
Using OneDrive
Managing Disks, Partitions, and Volumes
Maintaining Disks and Volumes
Managing Storage Spaces
Lab : Practice Lab: Managing Storage
Adding a Disk
Creating a Simple Volume

Compressing a Folder
Enabling Disk Quotas
Creating a Storage Space

Module 7: Managing Apps in Windows 10
In this module, Students will be introduced to App management in Windows 10. This module will cover the different types of apps and supported installation methods. Students will learn how to install apps using manual and automated methods, as well as manage app delivery using the Windows Store. Finally, this module will cover the differences between Internet Explorer and Microsoft Edge.
Lessons
Providing Apps to Users
Managing Universal Windows Apps
The Windows Store
Web browsers in Windows 10
Course Conclusion

Module 8: Configuring Authorization & Authentication
This module introduces the tools and features of Windows 10 for authorizing access to Windows 10 clients. Students will learn about methods for how users sign-in to Windows 10. This module also covers restricting what users can or cannot do on a device through methods like UAC and account types.
Lessons
Using Security Settings to Mitigate Threats
Configuring User Account Control
Implementing Device Registration
Authentication

Module 9: Configuring Data Access and Usage
In this module, Students will learn about permissions. This module will cover considerations for different files systems. Students will learn how to configure file and folder permissions as well as shared folders. The module will conclude with configuring settings through methods such as local and group policy.
Lessons
Overview of File Systems
Configuring and Managing File Access
Configuring and Managing Shared Folders
Managing Security with Policies
Lab : Configuring and Managing Permissions and Shares
Creating, Managing, and Sharing a Folder

Using Conditions to Control Access and Effective Permissions

Module 10: Configuring Threat Protection
This module introduces students to protecting devices from external threats. Students will learn about the different types of common threats. This module will teach students about using encryption, firewalls, and IPSec to help protect against threats. The module will conclude with how to configure and use Windows Defender and AppLocker.

Lessons
Malware and Threat Protection
Windows Defender
Connection Security Rules
Advanced Protection Methods
Lab : Practice Lab: Managing Network Security
Creating and Testing Inbound Rules
Creating and Testing Outbound Rules
Creating and Testing Connection Security Rules
Configuring Windows Defender

Course Conclusion

Module 11: Supporting the Windows 10 Environment
This module will cover the Windows 10 architecture and common environments. Students will be introduced to the various tools used in maintaining Windows. This module will also discuss methodologies for effectively troubleshooting issues and how to proactively manage and optimize Windows 10.
Lessons
Troubleshooting Windows
Troubleshooting Tools
Lab : Practice Lab: Monitoring Windows 10
Monitoring Events
Monitoring Reliability and Performance

Module 12: Troubleshooting the Windows OS
In this module, Students will learn how to troubleshoot startup and service issues related to the operating system. This module will teach the different startup and recovery options, and how to troubleshoot different Windows services.
Lessons
Troubleshooting Windows Startup
Troubleshooting Operating System Service Issues
Troubleshooting Sign-In Issues

Module 13: Troubleshooting Files & Applications

This module helps students plan for file backup and recovery. Students will learn how to plan and configure data protection strategies and how to perform various file and system recovery methods. This module also includes common methods for troubleshooting application installation issues, compatibility issues, and resolving browser issues.

Lessons

File Recovery in Windows 10

Application Troubleshooting

Lab: Troubleshooting Desktop Apps

Troubleshooting AppLocker Policy Applications

Troubleshooting Application Compatibility Issues

Troubleshooting Microsoft Internet Explorer Issues

Troubleshooting Microsoft Edge Issues

Module 14: Troubleshooting Hardware and Drivers

This module introduces hardware troubleshooting. Students will learn about driver management and how to troubleshoot devices. Students will also learn steps for troubleshooting system hardware and external peripherals such as USB drives and printers, including diagnostic methods and remediation.

Lessons

Troubleshooting Device Driver Failures

Overview of Hardware Troubleshooting

Troubleshooting Physical Failures

Lab : Troubleshooting Device Driver Issues

Troubleshooting a Missing Device Driver

Resolving Hardware Problems

Resolving device driver problem

Configuring Group Policy Settings to Control Device Installation

Course Conclusion