

# MTA Windows Operating System Fundamentals Course

## Session 1

### Section A: Introduction

- Windows Operating System
- Microsoft Certification Paths
- Knowledge Domains
- Exam Prerequisites
- Taking the Exam
- Exam Preparation Tips

### Section B: Windows OS

- DOS, the Precursor
- DOS Screens
- Windows 3.1
- Windows 95
- Windows NT
- Windows 7
- Windows Evolution
- Basic OS Architecture
- Rings in Windows

### Section C: Windows Interfaces

- Identifying Windows Interfaces
- Desktop/Taskbar
- GUI Overview
- Command Prompt
- PowerShell

### Section D: Planning Installations

- Exploring OS Editions
- Edition Upgrades
- OS Requirements
- Determining Requirements
- PC Upgrade Advisor
- Upgrade Paths

### Section E: Advanced Installation Topics

- Application Compatibility Topics
- Planning for Upgrades
- Installation Types
- Product Identification Keys
- Virtualization
- Virtualization Types

### Section F: Desktop Features

- Configuring Start Menu
- Customizing Start Menu
- Adding Administrative Tools
- Configuring Taskbar
- Notification Area

## **Section G: Configuring the Interface**

- User Profiles
- Gadgets
- Changing Display Settings
- Aero

## **Session 2**

### **Section A: Using Native Applications**

- Notepad
- WordPad
- Calculator
- Internet Explorer
- Gallery
- Snipping
- Media Center and Player

### **Section B: Configuration Settings**

- Msconfig General Settings
- Boot Config
- Services Tab
- Blue Screen of Death
- Tools Tab
- System Information App

### **Section C: The Control Panel**

- Applets
- Control Panel Categories
- Control Panel Views
- Super Control Panel

### **Section D: Control Panel Applets**

- Control Applets
- Ease of Access Center
- Default Programs Applet
- Powercfg Command Line Tool

### **Section E: Mobility Solutions**

- Sync Center
- Windows Mobility Center
- Enabling Remote Desktop
- Using Remote Assistance

### **Section F: MMC and PowerShell**

- The MMC
- New Taskpad View
- PowerShell

### **Section G: Planning for Applications**

- Using Localized Applications
- 32-Bit and 64-Bit
- Networked Applications
- Installation Information

### **Section H: Application and Deployment Control**

- Group Policy App Deployment
- Configuring Applications
- Deleting Applications
- Using MED-V
- VDI
- Services

## **Session 3**

### **Section A: Malware**

- Security
- Viruses and Worms
- Trojans and Backdoors
- Phishing Attacks
- Avoiding Phishing Attacks
- Planning for Malware Protection
- Microsoft Protection Methods

### **Section B: Controlling Malware**

- Windows Defender
- Installing
- Configuring MSE
- Action Center
- Configuring User Account Control

### **Section C: File Systems**

- Common File System Features
- Windows File Systems
- Comparing File Systems
- New NTFS Features
- Encryption
- Compression

### **Section D: Libraries**

- Library Features
- Creating a Library
- Adding Folders
- Customizing Libraries

## **Section E: Network Shares**

- Network Hardware
- TCP/IP
- Name Resolution
- Windows Workgroups
- Windows Homegroups
- Windows Domains
- Network Share Types
- Share Permissions

## **Section F: Creating Shares**

- Public Shares
- Create and Share Folders
- Basic Shares
- Advanced Shares
- Map Drive to Shared Location

## **Section G: Using Printers**

- Installing Printers
- Sharing Printers
- Permissions
- MS XPS Document Writer

## **Section H: Managing Devices**

- Device Drivers
- Locating Device Drivers
- Installing Drivers
- Custom Device Software
- Device Driver Manager
- Plug and Play
- Initial Device Installation

## **Session 4**

### **Section A: Storage**

- Types of Storage
- Selecting Hard Drives
- Hard Disk Standards
- FAT vs. NTFS
- Networked Storage
- DFS for File Distribution
- DFS for File Aggregation
- RAID Levels
- Basic and Dynamic Disks
- Create a VHD File
- Cloud Storage

### **Section B: Troubleshooting Theory**

- Troubleshooting Methodologies
- REACT Details

- Research Example
- Engage
- Adjust
- Configure and Take Note
- The OSI Model
- ITIL Publications

### **Section C: Troubleshooting Tools**

- Disk Defragmenter
- Command Line Defrag
- Disk Cleanup
- Scheduling Tasks
- Event Viewer
- Task Manager

### **Section D: Backup Solutions**

- Information Management
- Backup Methods
- Backup Tools
- Backup Target Options
- Backup and Restore Limitations
- Backup Planning Process
- Testing Recovery Processes

### **Section E: Backup and Restore**

- System Image
- Configure System Restore
- Restore Points
- Advanced Boot Options

### **Section F: Patch Management**

- Windows Update
- Microsoft Update Life Cycle
- Patch Management Options
- WSUS Implementation
- Microsoft Update