

EXAM 98-349

# Windows Operating System Fundamentals Objectives



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## 1.0 Understanding Operating System Configurations (15–20%)

- 1.1 Configure Control Panel options
  - Configure administrative tools, configure accessibility options, configure power settings, configure File Explorer settings
- 1.2 Configure desktop settings
  - Configure profiles, display settings, and shortcuts; configure and customize Start Menu; configure Task Bar settings; configure toolbars; configure notifications
- 1.3 Configure native applications and tools
  - Configure Microsoft Edge, configure Cortana, configure Hyper-V, configure settings using MSCONFIG, configure processes and applications using Task Manager, configure computer management
- 1.4 Configure mobility settings
  - Configure Sync Center, Windows Mobility Center, and Remote Desktop
- 1.5 Configure remote management tools
  - Configure MMC, configure the Windows PowerShell console and Windows PowerShell ISE

### Preparation resources

- Administrative Tools in Windows 10
- Manage Windows 10 Start and Taskbar layout
- PowerShell 5.0 in Windows 10
- Remote Desktop and Remote Assistance
- Windows 10 MMC
- Windows 10 Command Prompt and CLI

# Windows Operating System Fundamentals Objectives

## 2.0 Installing and Upgrading Client Systems (15–20%)

- 2.1 Identify Windows operating system editions
  - Identify hardware and compatibility requirements, determine appropriate editions per device type
- 2.2 Identify upgrade paths
  - Identify upgrade paths from previous Windows versions, identify application compatibility
- 2.3 Understand installation types
  - Perform a clean install, upgrade via Windows Update, migrate from previous Windows versions, perform removable media installation, perform network installation
- 2.4 Understand operating system architecture
  - Understand kernel mode; understand user mode; understand memory, IRQs, drivers, CPUs, and UI; understand 32-bit versus 64-bit architecture

### Preparation resources

- Windows 10 Upgrade Path
- Windows 10 Compatibility
- Windows 10 deployment considerations
- Architecture of Windows 10
- Windows 10 Update Assistant

# Windows Operating System Fundamentals Objectives

## 3.0 Managing Applications (15–20%)

### 3.1 Understand application

- Understand local versus network applications, configure desktop applications, configure app startup options, configure Windows features, configure Windows SmartScreen, configure application removal, configure Windows Store apps

### 3.2 Understand user account control (UAC)

- Understand standard user versus administrative user, understand types of UAC prompts and levels

### 3.3 Configure antivirus settings

- Configure Windows Defender and the Malicious Software Removal tool

### 3.4 Understand services

- Understand service start-up types, service accounts, and service dependencies

### Preparation resources

- User Account Control
- Windows Defender Advanced Threat Protection
- Windows Defender in Windows 10
- Microsoft Malicious Software Removal Tool
- Windows 10 Application Startup
- Starting and Stopping Applications in Windows 10

# Windows Operating System Fundamentals Objectives

## 4.0 Managing Files and Folders (15–20%)

- 4.1 Understand file systems
  - Understand FAT32, NTFS, and ReFS
- 4.2 Understand file and print sharing
  - Configure File System permissions, configure Share Permissions, configure, configure print drivers, configure effective permissions, create shares, create mapped drives
- 4.3 Understand encryption
  - Understand BitLocker and Encrypting File Systems (EFS)
- 4.4 Understand libraries
  - Understand offline files, configure libraries, add multiple local locations to a library, add networked locations

### Preparation resources

- Configuring BitLocker and EFS
- Converting File Systems
- Configuring Shared Drives
- Creating Mapped Drives
- Configuring Libraries

# Windows Operating System Fundamentals Objectives

## 5.0 Managing Devices (15–20%)

### 5.1 Connect devices

- Connect, enable, and disable plug-and-play and Bluetooth devices; connect and disconnect printers; install third-party software for devices; install device drivers

### 5.2 Understand storage

- Understand disk types, security (encryption), storage device types (eSATA, USB, IEEE 1394, iSCSI, InfiniBand), and storage drive types (basic, primary, extended, logical, dynamic disk, VHDs); configure OneDrive use; optimize drives

### 5.3 Understand printing devices

- Understand local printers, network printers, print queues, print-to-file, and Internet printing

### 5.4 Understand system devices

- Understand video, audio, and infrared input devices; understand Device Manager

### Preparation resources

- Storage Spaces in Windows 10
- Configuring Drives with Diskpart
- Configuring Drives with Disk Management
- Configuring Printer Shares
- Driver Updates and Rollback

# Windows Operating System Fundamentals Objectives

## 6.0 Understanding Operating System Maintenance (15-20%)

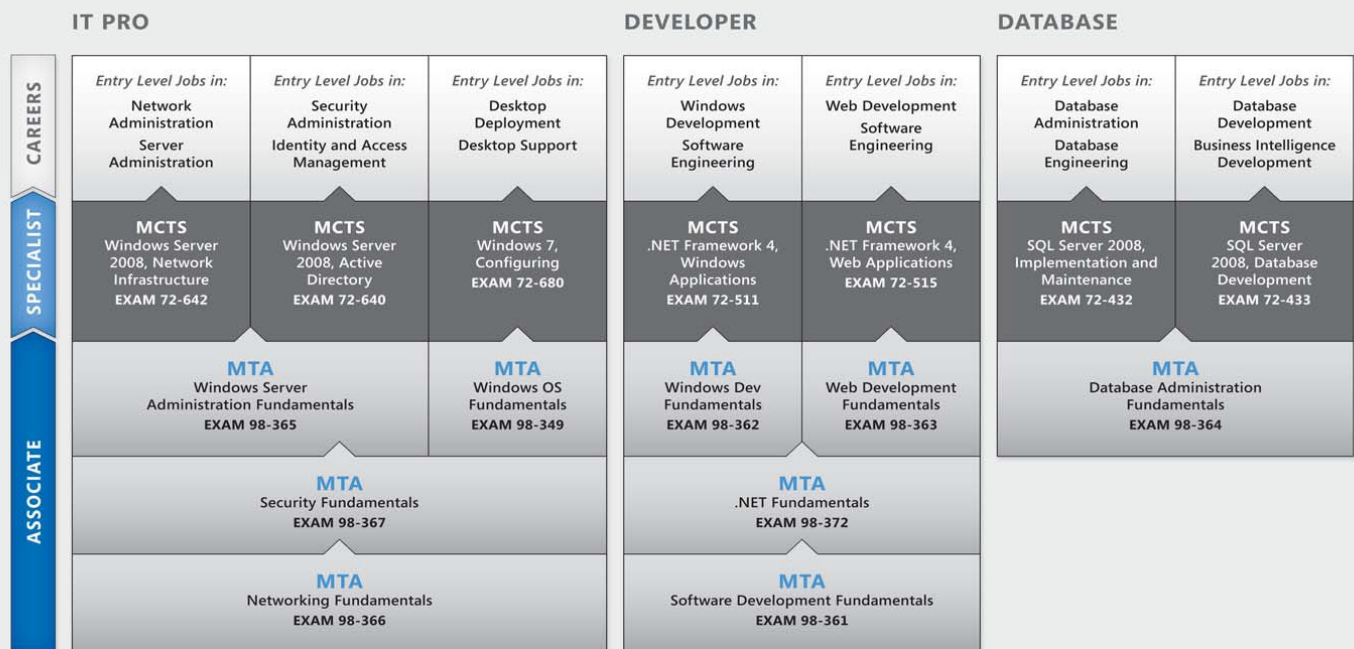
- 6.1 Understand backup and recovery methods
  - Configure System Restore; configure a recovery drive; configure recovery boot options, such as Last Known Good, and various Safe Mode options; recover files from OneDrive
- 6.2 Understand maintenance tools
  - Understand Disk Defragmenter, Disk Cleanup, Task Scheduler, and System Information
- 6.3 Configure updates
  - Configure Windows Update options; implement Insider Preview, Current Branch, and Current Branch for Business scenarios; manage update history; roll back updates

### Preparation resources

- Windows 10 Servicing Options
- Windows 10 System Restore and Restore Points
- Windows 10 Backup and Recovery
- Windows 10 Task Scheduler
- Windows 10 Disk Utilities
- Windows 10 Updates

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