

98-349: Windows Operating System Fundamentals

This document shows where changes to Exam 98-349 have been made to incorporate updates for Windows 10, including the removal of any tools not supported in Windows 10. These changes are effective as of August 31, 2016.

1. 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 ~~gadgets~~, profiles, display settings, and shortcuts; ~~and Aero configurations and capabilities~~ configure and customize Start Menu; configure Task Bar settings; configure toolbars; configure notifications

1.3. ~~Understand~~ Configure native applications and tools

~~Understanding Windows Internet Explorer~~ Configure Microsoft Edge; configure Cortana; configure Hyper-V; ~~the snipping tool; Windows Media Player, Windows Media Center,~~ and configure settings using MSCONFIG; configure processes and applications using Task Manager; configure computer management

1.4. ~~Understand~~ Configure mobility settings

~~Understanding~~ Configure Sync Center, Windows Mobility Center, and Remote Desktop

1.5. ~~Understand remote management and assistance~~ Configure and use management tools

~~Understanding~~ Configure MMC; configure the Windows PowerShell console and Windows PowerShell ISE

2. Installing and upgrading client systems (15–20%)

2.1. Identify Windows operating system editions

Identify ~~system hardware and compatibility~~ requirements; ~~using PC Upgrade Adviser~~ determine appropriate editions per device type

2.2. Identify upgrade paths

Identify upgrade paths from ~~Windows XP, Windows Vista, and other operating systems; previous Windows versions;~~ identify application compatibility

2.3. Understand installation types

Perform a clean install; upgrade via Windows Update; migrate from previous Windows versions; ~~Understanding~~ perform removable media installation; ~~(DVD, ZIF, LTI, and USB), cloud and~~ perform network installations, ~~and product identification keys~~

2.4. ~~Understand virtualized clients~~

~~Understanding Windows XP Mode, Remote Desktop, and Remote Desktop Services~~

2.5. Understand operating system architecture

Understand kernel mode; understand user mode; understand memory, IRQs, drivers, CPUs, and UI; understand 32-bit vs. 64-bit architecture

3. Managing applications (15–20%)

3.1. ~~Understand~~ Configure applications ~~installations~~

Understand local vs. network applications; ~~Group Policy, and application removal~~ configure desktop applications; configure app startup options; configure Windows features; configure Windows SmartScreen; configure application removal; configure Windows Store apps

3.2. ~~Understand~~ Configure User Account Control (UAC)

Understand standard user vs. administrative user; understand types of UAC prompts and levels

3.3. ~~Remove malicious software~~ Configure antivirus settings

~~Understanding~~ Configure Windows Defender and ~~Action Center~~, the Malicious Software Removal tool, ~~Windows Registry, and Microsoft Forefront Endpoint Protection~~

3.4. Understand services

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

~~3.5. Understand application virtualization~~

~~Understanding~~ ~~Med-V and VDI~~

4. Managing files and folders (15–20%)

4.1. Understand file systems

Understand ~~FAT~~, FAT32, NTFS, and ReFS

4.2. Understand file and print sharing

~~Understanding~~ ~~NTFS and share permissions~~, Configure File System permissions; configure Share Permissions; configure HomeGroup settings; configure print drivers; configure effective permissions; ~~create public, basic, and advanced~~ shares; ~~create~~ mapped drives

4.3. Understand encryption

Understand BitLocker and Encrypting File System (EFS) ~~and compression~~

4.4. Understand libraries

Understand offline files; ~~configure~~ libraries; add multiple local locations to a library; add networked locations

5. 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 (~~NTFS, FAT, etc.~~); security (encryption), storage device types (eSATA, USB, ~~USB 2.0~~, IEEE 1394, iSCSI, Infiniband), and storage drive types (basic, primary, extended, logical, dynamic disk, VHDs); ~~configure simple and spanned~~ volumes; ~~configure~~ disk management; ~~and cloud storage (Windows Live OneDrive, OneNote to OneDrive, Live mesh)~~ 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

6. **Understanding operating system maintenance (15–20%)**

6.1. Understand backup and recovery methods

~~Understanding local, online, and automated backup methods; understanding backup options; understanding~~ 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, ~~Action Center~~, and System Information

6.3. ~~Understand~~ Configure updates

Configure Windows Update options; implement Insider Preview, Current Branch, and Current Branch for Business scenarios; manage update history; roll back updates ~~Understanding Windows updates, Microsoft updates, and hotfixes~~