

## REVIEW LESSON

MTA Course: 10753 Windows Operating System Fundamentals

Lesson name: Windows Operating System Fundamentals 3.1

Topic: Understanding application installations (One 50-minute class period)

File name: 10753\_WindowsOS\_RL\_3.1

### Lesson Objective

**3.1:** Understand application installations. *This objective may include but is not limited to:* understanding local vs. network applications, Group Policy, and application removal.

### Preparation Details

#### Prerequisite student experiences and knowledge:

This MTA Certification Exam Review lesson is written for students who have learned about Microsoft Windows operating system fundamentals. Students who do not have the prerequisite knowledge and experiences cited in the objective will find additional learning opportunities using resources such as those listed in the “Resources” section at the end of this review lesson.

#### Instructor preparation activities:

- Make copies available of the Student Activity 10753\_WindowsOS\_SA\_3.1 document.
- The instructor should have access to an existing system running Windows 7 Professional or a virtual machine running Windows 7 Professional for the purpose of demonstrating software installation and uninstallation methods.
  - If available, a domain controller running Windows 2008 R2 Active Directory Domain Services (AD DS) would be preferable to highlight Group Policy software installation extensions.
- The instructor should have access to Microsoft Office 20xx available for installation demonstration.

#### Resources, software, and additional files needed for this lesson:

- 10753\_WindowsOS\_SA\_3.1
- 10753\_WindowsOS\_PPT\_3.1

## **Teaching Guide**

### **Essential Vocabulary**

**application**—a program designed to assist in the performance of a specific task, such as word processing, accounting, or inventory management.

**AutoPlay**—performs a configurable action automatically when new removable media is inserted into the computer.

**Group Policy**—a collection of settings stored within documents created by the Group Policy snap-in, a utility in Windows. These settings are stored at the domain level and affect users and computers contained in sites, domains, and organizational units.

**User Account Control (UAC)**—a feature in Windows that helps the user stay in control of the computer by issuing notices when a program makes a change that requires administrator-level permission. UAC works by adjusting the permission level of your user account. If you're doing tasks that can be done as a standard user, such as reading email, listening to music, or creating documents, you have the permissions of a standard user, even if you're logged on as an administrator.

## **Lesson Sequence**

### **Activating prior knowledge/lesson staging (5 minutes):**

Direct students to answer each question in their notes.

1. What methods can be used to install software? (local, network, Group Policy)
2. What is required to perform a local installation? (software media)
3. What do you need to do to install software on a local system? (be in the Administrators group or use User Account Control)

### **Lesson activity (40 minutes):**

1. Teacher instruction (20 minutes; see the “Suggested best practices” section below regarding this presentation).
2. Use the included PowerPoint presentation to review understanding application installation.
3. Guided practice (20 minutes):
  - a. Students are to complete 10753\_WindowsOS\_SA\_3.1.

**Assessment/lesson reflection (5 minutes):**

1. In the same notes that they created for the “Activating prior knowledge/lesson staging” section at the beginning of the class, direct students to check their initial answers and make any changes if necessary.
2. Instruct students to write and submit any questions they have or any topics about which they would like more assistance.
3. After class, look through the student responses and follow up with any student requiring additional help.

**Resources:**

- **Microsoft: TechNet: Group Policy Software Installation overview**  
*[http://technet.microsoft.com/en-us/library/cc738858 \(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc738858 (WS.10).aspx)*
- **Microsoft: User Account Control**  
*<http://windows.microsoft.com/en-US/windows7/products/features/user-account-control>*
- **Microsoft: TechNet: Windows Server Group Policy Home**  
*<http://technet.microsoft.com/en-us/windowsserver/bb310732.aspx>*

**Additional activities (homework or enrichment):**

- Have students research how to remove residual files after a software package has been uninstalled and create a chart to compare advantages and disadvantages of various methods.

**Suggested best practices:**

- The method of demonstrating an installation of an application may seem trivial to a student; however, it should be stressed that automation and consistency during the process can foster a more stable computing environment. It is always recommended to update any applications after installation.

**Additional notes to the teacher:**

- If you demonstrate a Group Policy installation of Office 2007, be sure to create the package in the Computer Configuration policy. Office 2010 is not intended to be installed via Group Policy at this time.