

## REVIEW LESSON

MTA Course: 10753 Windows Operating System Fundamentals

Lesson name: Windows Operating System Fundamentals 3.4

Topic: Understand services (One 50-minute class period)

File name: 10753\_WindowsOS\_RL\_3.4

### Lesson Objective

**3.4:** Understand services. *This objective may include but is not limited to:* understanding service startup types, service accounts, and service dependencies.

### 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 document 10753\_WindowsOS\_SA\_3.4.
- The instructor should have access to an existing system running Windows 7 Professional or a virtual machine with Windows 7 Professional installed for the purpose of demonstrating how to manage services.

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

- 10753\_WindowsOS\_RL\_3.4
- 10753\_WindowsOS\_SA\_3.4
- 10753\_WindowsOS\_SA\_3.4\_key
- 10753\_WindowsOS\_PPT\_3.4

## **Teaching Guide**

### **Essential Vocabulary**

**service**—an application type that runs in the system background without a user interface and is similar to a UNIX daemon process. Services provide core operating system features, such as web serving, event logging, file serving, printing, cryptography, and error reporting.

**System Event Log**—contains events logged by Windows system components. For example, the failure of a driver or other system component to load during startup is recorded in the system log. The event types logged by system components are predetermined by Windows.

### **Lesson Sequence:**

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

Direct students to answer each question in their notes.

1. List the four startup types for Windows services. (Automatic, Automatic (Delayed Start), Manual, Disabled)
2. How can you start the Services snap-in from Search Programs And Files? (Services.msc or Services)
3. A service has failed to start; what application would you first use to determine the cause? (Event Viewer, Windows Logs, System Log)

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

1. Teacher instruction (20 minutes; see the “Suggested best practices” section regarding this presentation).
2. Use the included Microsoft PowerPoint® presentation to review Windows services.
3. Guided practice (20 minutes):
  - a. Direct students are to complete Student Activity document 10753\_WindowsOS\_SA\_3.4.

#### **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:**

Access Windows Help as follows:

1. Click Start; in the Search programs and files field, type **services.msc** and press ENTER.
2. Click the Help icon in the menu bar.
  - **Microsoft: TechNet: Default settings for services**  
*[http://technet.microsoft.com/en-us/library/cc785922 \(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc785922 (WS.10).aspx)*
  - **Microsoft: TechNet: Configure how a service is started**  
*[http://technet.microsoft.com/en-us/library/cc739213 \(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc739213 (WS.10).aspx)*
  - **Microsoft: TechNet: Start, stop, pause, resume or restart a service**  
*[http://technet.microsoft.com/en-us/library/cc736564 \(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc736564 (WS.10).aspx)*
  - **Microsoft: TechNet: Service snap-in**  
*[http://technet.microsoft.com/en-us/library/cc757797 \(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc757797 (WS.10).aspx)*

**Suggested best practices:**

- Students should be made aware that running additional services requires system resources. Unnecessary services should be disabled. However, students should be careful when disabling services. It is important that they research and test services before disabling them.