

REVIEW LESSON

MTA Course: Software Development Fundamentals

Lesson name: Software Development Fundamentals 5.3

Topic: Understand Windows Services (One 50-minute class period)

File name: SoftDevFund_RL_5.3

Lesson Objective:

5.3: Understand Windows[®] Services. *This objective may include but is not limited to:* characteristics and capabilities of Windows Service.

Preparation Details

Prerequisite student experiences and knowledge

This MTA Certification Exam Review lesson is written for students who have learned about programming. 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 Microsoft[®] resources and Web links at the end of this review lesson.

Instructor preparation activities

None

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

- SoftDevFund_PPT_5.3

Teaching Guide

Essential vocabulary:

service—A service is 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..

Lesson Sequence

Activating prior knowledge/lesson staging (10 minutes)

1. Show the Activator slide in the Microsoft PowerPoint® presentation for this lesson.
 - a. *Ask:* What are some processes that we might want to constantly run in the background of the computer?
 - i. Automatic Updates, network communication, reporting errors back to a source, Plug and Play of peripherals, communications with printers.

Explain that these programs would exist as Windows Services.

Lesson activity (30 minutes)

1. Review the definition.
2. Show the PowerPoint® presentation.
 - a. Describe Windows Services and explain why a Windows Service would be created.
 - b. Explain how creating Windows Services is different than other types of applications.
 - c. Describe the Windows Service lifetime.
3. Open the Windows Services Control Manager on a computer so students can see the Windows Services running on the machine.

Assessment/lesson reflection (10 minutes)

1. Show the Lesson Review slide in the PowerPoint presentation. (Refer back to the slideshow file for the answers.)
 - a. What is a Windows Service?

b. When would you use a Windows Service?

| c. How would creating a Windows Service project be different than other applications?

| d. What are the stages in the lifetime of a Windows Service?

Microsoft resources and Web links

Introduction to Windows Services Applications (MSDN)

<http://msdn.microsoft.com/en-us/library/d56de412%28VS.80%29.aspx>

Creating a Windows Services Application (MSDN)

<http://msdn.microsoft.com/en-us/library/zt39148a%28VS.80%29.aspx>