

REVIEW LESSON

MTA Course: 10754 Microsoft .NET Fundamentals

Lesson name: Microsoft .NET Fundamentals 3.3 and 3.4

Topic: Understand version control; Understand assemblies and metadata (One 50-minute class period)

File name: 10754_Msft.NET_RL_3.3-3.4

Lesson Objectives

3.3: Understand version control. *This objective may include but is not limited to:* understanding how .NET applications are versioned and how to run different versions on the same computer.

3.4: Understand assemblies and metadata. *This objective may include but is not limited to:* understanding .NET assemblies, shared assemblies, and metadata in .NET.

Preparation Details

Prerequisite student experiences and knowledge:

This MTA Certification Exam Review lesson is written for students who have learned about application programming with the Microsoft® .NET Framework. 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:

- None

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

- 10754_Msft.NET_PPT_1.2

Teaching Guide

Essential Vocabulary

assembly—a collection of types and resources that form a logical unit of functionality and are built to work together.

assembly manifest—a collection of data that describes how the elements in the assembly relate to each other.

metadata—data about data, or descriptive data about a file or a set of data.

version number—a four-part number that identifies the major and minor versions of an assembly, as well as the build and revision number.

side-by-side execution—storing and executing multiple versions of an application or component on the same computer.

Lesson Sequence

Activating prior knowledge/lesson staging (5 minutes):

1. As indicated in the Microsoft PowerPoint® presentation, direct students to respond to the prompts about version numbers.

Lesson activity (40 minutes):

1. Use the presentation to review the basics of versioning, assemblies, and assembly metadata.

Assessment/lesson reflection (5 minutes):

1. Direct the students to complete the “Ticket Out the Door” activity at the end of the presentation.
2. A “Ticket Out the Door” activity is one in which students must each respond to questions or prompts and turn in their responses before leaving. After class, you can look over their responses to see if the concept needs further review or if individual students need help with the lesson.
3. As time allows, ask students to share their responses.

Resources:

- **MSDN®: Assembly Versioning**
<http://msdn.microsoft.com/en-us/library/51ket42z.aspx>
- **MSDN: Assemblies**
<http://msdn.microsoft.com/en-us/library/30azhh5b.aspx>
- **MSDN: Assemblies in the Common Language Runtime**
<http://msdn.microsoft.com/en-us/library/k3677y81.aspx>
- **MSDN: Guidelines for Creating Applications and Components for Side-by-Side Execution**
<http://msdn.microsoft.com/en-us/library/z5e12zb4.aspx>
- **MSDN: Metadata and Self-Describing Components**
<http://msdn.microsoft.com/en-us/library/xcd8txaw.aspx>
- **MSDN: Assembly Manifest**
<http://msdn.microsoft.com/en-us/library/1w45z383.aspx>