

## REVIEW LESSON

MTA Course: 10754 Microsoft .NET Fundamentals

Lesson name: Microsoft .NET Fundamentals 4.3

Topic: Understand XML classes in the .NET Framework (One 50-minute class period)

File name: 10754\_Msft.NET\_RL\_4.3

### Lesson Objective

**4.3:** Understand XML classes in the .NET Framework. *This objective may include but is not limited to:* understanding *XMLReader*, *XMLWriter*, and XML Schemas.

### 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:

- Make copies available of the Student Activity document 10754\_Msft.NET\_SA\_4.3.

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

- 10754\_Msft.NET\_PPT\_4.3
- 10754\_Msft.NET\_SA\_4.3
- 10754\_Msft.NET\_CS\_4.3  
(a Microsoft Visual Studio® file that contains a sample solution to the student activity)

## **Teaching Guide**

### **Essential Vocabulary**

**Extensible Markup Language (XML)**—a markup language for formatting data in a document, which is useful for storing data or transferring data between different computer platforms or applications.

**XMLTextReader**—an implementation of the `XMLReader` class that allows developers to read XML from a file.

**XML Schema**—a model in which the flow of program execution is determined by events, such as user interface actions.

**XMLTextWriter**—an implementation of the `XMLWriter` class that allows developers to write well-formed XML to a file.

## **Lesson Sequence**

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

1. As indicated in the Microsoft PowerPoint® presentation, direct students to answer the prompts about Hypertext Markup Language (HTML).
2. The point here is to get the students thinking about the uses of tags in HTML; this syntax is identical to that of XML. It is likely that students are more familiar with HTML than XML.

### **Lesson activity (15 minutes):**

1. Use the presentation to review working with XML in the .NET Framework.
2. Note that slides 6 and 7 direct students to create a project and add the specified XML file. This project will be the basis of the student activity.

### **Assessment/lesson reflection (30 minutes):**

1. Instruct students to create the XML application according to the directions in the Student Activity document 10754\_Msft.NET\_SA\_4.3.
2. The included Visual Studio project, in the compressed file 10754\_Msft.NET\_CS\_4.3, is a sample solution to the student activity.

**Resources:**

- **MSDN®: Lesson 10: Working with XML and Visual Basic®**  
*<http://msdn.microsoft.com/en-us/beginner/bb308816.aspx>*
- **MSDN: Lesson 10: Working with XML and Visual C#®**  
*<http://msdn.microsoft.com/en-us/beginner/bb308812.aspx>*
- **How to read XML from a file by using Visual C#**  
*<http://support.microsoft.com/kb/307548>*
- **Well-Formed XML Creation with the XmlTextWriter**  
*<http://msdn.microsoft.com/en-us/library/wkee9k2s.aspx>*