

REVIEW LESSON

MTA Course: 10754 Microsoft .NET Fundamentals

Lesson name: Microsoft .NET Fundamentals 4.1

Topic: Understand .NET file classes (One 50-minute class period)

File name: 10754_Msft.NET_RL_4.1

Lesson Objective

4.1: Understand .NET file classes. *This objective may include but is not limited to:* understanding read/write file classes and stream readers and writers.

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_4.1.

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

- 10754_Msft.NET_PPT_4.1
- 10754_Msft.NET_SA_4.1
- 10754_Msft.NET_CS_4.1
(a Microsoft Visual Studio® file that contains a sample solution to the student activity)

Teaching Guide

Essential Vocabulary

FileStream—a class that creates a stream around a file, allowing the developer to read and write data.

stream—a set of data which has a beginning and an end, and where the cursor indicates the current position in the stream.

StreamReader—a class designed to read character data from a stream.

StreamWriter—a class designed to write character data to a stream.

Lesson Sequence

Activating prior knowledge/lesson staging (5 minutes):

1. As indicated in the Microsoft PowerPoint® presentation, engage students in a brief discussion about the uses (and importance) of text files.

Lesson activity (15 minutes):

1. Use the presentation to review the basics of file I/O in the .NET Framework.

Assessment/lesson reflection (30 minutes):

1. Direct students to complete 10754_Msft.NET_SA_4.1.
2. The included Visual Studio project in the compressed file 10754_Msft.NET_CS_4.2 is a sample solution to the student activity.

Resources:

- **MSDN®: How to: Read Text from a File**
<http://msdn.microsoft.com/en-us/library/db5x7c0d.aspx>
- **MSDN: How to: Write Text to a File**
<http://msdn.microsoft.com/en-us/library/6ka1wd3w.aspx>
- **Microsoft Support: How to do basic file I/O in Visual C#®**
<http://support.microsoft.com/kb/304430>