

**Course Outline:** 2956\_ Core Foundations of Microsoft .NET 2.0 Development

**Learning Method:** Instructor-led Classroom Learning

**Duration:** 3.00 Day(s)/ 24 hrs

**Overview:**

This three-day instructor-led course provides students with the knowledge and skills to program Microsoft .NET Framework applications by using Microsoft Visual Studio 2005 development system. This course helps students to prepare for Exam 70-536, which is a core requirement for the MCTS certification. With the release of this course, Microsoft Partners will be able to provide their customers with a complete certification track in the classroom.

**Who Should Attend:**

The audience for this course consists of application developers with the skills to develop business applications by using Visual Studio 2005 and either Microsoft Visual Basic development system or Microsoft Visual C# development tool.

**At Course Completion:**

After completing this course, students will be able to:

- Develop applications that use types and standard contracts.
- Manage common data by using collections.
- Deploy and configure assemblies.
- Monitor and debug applications.
- Read and write files.
- Serialize data.

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**Outline:**

**Module 1: Developing Applications by Using Types and Standard Contracts**

**Lessons**

- Explaining Value Types and Reference Types
- Working with Generic Types
- Implementing .NET Standard Contracts
- Implementing Delegates and Events
- Working with Attributes and Exceptions

**Lab: Developing Applications by Using Types and Standard Contracts**

- Using Nullable Types
- Defining a Generic Type
- Implementing Standard .NET Framework Interfaces
- Throwing and Catching Exceptions (If Time Permits)
- Raising and Handling Events (If Time Permits)

**Module 2: Managing Common Data by Using Collections**

**Lessons**

- Working with Object-Based Collections
- Working with Generic Collections
- Working with Specialized Collections

**Lab: Managing Common Data by Using Collections**

- Using the Dictionary Generic Collection
- Using the List Generic Collection
- Using the NameValueCollection Specialized Collection

**Module 3: Deploying and Configuring Assemblies**

**Lessons**

- Installing and Configuring Assemblies
- Installing Assemblies by Using the Installer
- Configuring Assemblies
- Configuring the .NET Framework

**Lab 3: Deploying and Configuring Assemblies**

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- Managing the Configuration Settings of an Assembly
- Deploying an Application by Using Windows Installer

#### **Module 4: Monitoring and Debugging Applications**

##### **Lessons**

- Working with Application Processes
- Managing Application Performance
- Reading and Writing to an Event Log
- Debugging and Tracing Applications

#### **Lab: Monitoring and Debugging Applications**

- Monitoring Application Performance
- Logging Information in a Custom Event Log
- Adding and Configuring Tracing Statements in an Application

#### **Module 5: Reading and Writing Files**

##### **Lessons**

- Managing the File System
- Reading and Writing Data by Using Streams
- Compressing and Protecting Data by Using Streams
- Improving Application Security by Using

Isolated Storage

#### **Lab: Reading and Writing to File and Folders**

- Archiving Files
- Compressing Files
- Storing and Retrieving User Preferences

#### **Module 6: Serializing Data**

##### **Lessons**

- Serializing and Deserializing Objects by Using Runtime Serialization
- Customizing the Runtime Serialization and Deserialization Processes
- Serializing and Deserializing Objects As XML Data

#### **Lab 6: Serializing Data**

- Customizing the Runtime Serialization Process
- Serializing and Deserializing Data as XML

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