

## 2957 Advanced Foundations of Microsoft® .NET 2.0 Development

Days of Training: 3

### Overview

This course provides students with the enabling knowledge and skills required to create Microsoft .NET Applications with Visual Studio 2005. Students learn how to develop secured .NET applications.

### Prerequisites

Understand the purpose and components of the .NET 2.0 Framework and the Common Language Runtime.

### Next Steps

2543 Core Web Application Technologies with Microsoft Visual Studio 2005  
2546 Core Windows Forms Technologies with Microsoft Visual Studio 2005  
2548 Core Distributed Application Development with Microsoft Visual Studio 2005

### Lesson 1: Creating Globalized Applications

- Culture Information by Using Globalization Classes
- Creating a Custom Culture
- Working with Primary Encoding Classes
- Working with Advanced Encoding Classes

### Lesson 2: Working with GDI+ in Windows-based Applications

- Working with Graphics, Brushes, Pens, Colors, and Fonts
- Manipulating the Shapes and Sizes of Graphical Objects
- Working with Images, Bitmaps, and Icons

### Lesson 3: Implementing Code Access Security

- Configuring Code Access Security
- Managing Security Policy
- Managing Permissions
- Managing Access Control
- Managing User Identity Information

### Lesson 4: Implementing Cryptography

- Encrypting Data
- Hashing Data
- Extending the Cryptographic Behavior

### Lesson 5: Interoperating Between COM Components and Assemblies

- Accessing COM Components by Using Interop Services
- Exposing an Assembly to COM Components by Using Interop Services
- Accessing COM Components by Using Platform Invocation Services

### Lesson 6: Working with Service Applications and E-mail Messages

- Working with a Windows Service Application
- Working with E-mail Messages

### Lesson 7: Working with Type Metadata

- Working with Type Metadata by Using Pre-defined Assembly Classes
- Working with Assemblies Dynamically by Using Custom Classes

### Lesson 8: Creating Multithreaded Applications and Application Domains

- Managing Threads in a Synchronous Environment
- Synchronizing Threads
- Managing Threads in an Asynchronous Environment
- Working with Application Domains

MSM2957-ILT