

Exploring Microsoft® Visual C#® 2005

Instructor: Ken Getz is a nationally renowned speaker and best-selling author who specializes in programming with Visual C# and Visual Basic. He is the author and presenter of some of AppDev's most popular courses, and has been showing developers how to build powerful, robust applications for over 10 years.

Total Learning Time: 9 hours

Media run time is 9+ hours. This course can also be used as quick reference material, with the ability to access just the information you need in a matter of minutes.

Course Description: In this course, you'll see the process of creating an end-to-end Visual C# 2005 application starting with an introduction to the .NET Framework and concluding with the running complete application. Gain insight into a variety of topics focusing on the major areas of application development on the .NET Framework. The application will include coverage of Windows applications, ASP.NET, ADO.NET, Web Services, Windows Services, COM Interop, and more.

Course Outline:

Introduction to Visual Studio 2005

- What is .NET, Anyway?
- .NET Framework Components
- .NET Languages
- Applications You Can Build
- Create a Console Project in Visual Studio 2005
- Option Strict
- Intellisense
- Start Debugging
- Add A Reference
- Single Step from Visual Basic to C#
- Imports/Using Statements
- Inserting Code Snippets
- How Do I Distribute This App?

Intro to .NET Framework Classes

- Looking at System Services
- What's in the BCL?
- A Note About Namespaces
- System Namespace
- System.Collections
- System.Data
- System.NET
- System.Security
- System.Web.UI.WebControls
- System.Windows.Forms

Specific .NET Framework Classes

- String Class
- StringBuilder Class
- FileVersionInfo Class
- FileSystemWatcher Class
- Common Dialog Demo
- Network Event Demo
- New Classes in Framework 2.0
- My Namespace Simplifies
- Static Classes
- Dynamic Classes

Serializing Data Using C# 2005

- Using Serialization
- .NET Framework/Serialization
- Take Advantage of Formatter Classes
- Serialization/Deserialization
- Where is the Data Going?
- Why Message Queuing?
- Message Queuing Terminology
- Programming Basics
- Send Customer via MSMQ
- Retrieve Customer from MSMQ

Data Access with ADO.NET

- What is ADO.NET?
- ADO.NET Architecture
- DataTable Object
- Filling a DataTable Manually
- Setting Up Connections
- Commands
- Reading Data with DataReader
- Working With Data
- Connecting to a Data Source
- Getting Data into a DataSet
- Viewing Data while Debugging
- Inserting Data
- Insert Data Using Stored Procedure
- New Features in ADO.NET

Windows Services Using C# 2005

- Steps for Building Windows Services
- View Current Running Services
- Debugging Your Service
- Create a Windows Service
- Uninstall the Windows Service

Windows Forms Using C# 2005

- Why Windows Forms?
- Visual Inheritance
- Forms in Visual Studio
- Some Windows Forms Controls
- Create a Base Form
- Create an Inherited Form
- Anchoring/Docking
- Creating an MDI Application
- Display Forms Programmatically
- Examine Event Handler code
- Add Code to the Base Form
- BackgroundWorker Component
- New Controls in Visual Studio 2005
- ClickOnce Deployment

ASP.NET Web Forms Using C# 2005

- What's Good About Classic ASP?
- What's Bad About Classic ASP?
- Introducing ASP.NET
- Designing Web Pages
- Separation of UI and Code
- Create a New Web Application
- Add Controls to a Web Page
- Run the Web Page
- View Source of Web Page
- Server Controls
- Web Controls

COM Interoperability

- Why Use COM in a .NET World?
- COM and the CLR
- Bi-Directional COM Interop
- Create an ActiveX DLL
- Call ComDemo From Excel
- Call ComDemo from Visual Studio 2005
- Object Lifetime
- Set Up Reg-Free COM

Web Services Using C# 2005

- Introducing Web Services
- Transporting Information
- Consuming A Web Service
- Making Web Service Requests
- Set a Reference to the Web Service
- Add Code to Call the Web Service
- Call A More Complex Web Service
- Create A New Web Service
- Consume the Web Service
- Deploy the Web Service

Number of Modules	Media Run Time	Total Learning Time	Printable PDF Courseware	Hands-on Labs	Sample Code	Pre/Post Exams	Supports Microsoft Exam Number
6 Modules	9+ hours	9+ hours	N/A	N/A	Yes	N/A	N/A