

# Exploring Visual Studio® 2010 Using Visual C#®

**Instructors:** **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.

**Robert Green** is a frequent speaker at technology conferences and has authored many articles on Visual Basic and Visual C#. A former program manager and product manager for Microsoft Corporation, Robert now specializes in authoring and presenting using the latest Visual Studio technologies.

**Target Audience/Prerequisites:** This course is for Visual Studio 2005 and 2008 developers looking to upgrade to Visual Studio 2010. This course assumes that students have some programming background and experience using Visual Studio 2008. Because this course focuses solely on new features in Visual Studio 2010, its content will best be appreciated by developers who are fluent using Visual Studio 2008 and simply want to discover the new features added in Visual Studio 2010. The course assumes knowledge of a CLS language (Visual Basic or Visual C#), of the .NET Framework 3.5, and Visual Studio 2010.

**Total Learning Time:** 11 hours

Media run time is 11+ 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:** Visual Studio 2010 adds a large set of new functionality for the Visual Studio developer. From new language features, including dynamic language support to full support and tooling for developing Silverlight applications, Visual Studio 2010, and the .NET Framework 4.0, make it easier than ever to create robust, enterprise-level applications. This course introduces the most important new features in Visual Studio 2010 for experienced Visual Studio developers.

## Course Outline:

### Language and IDE Features

- Examine Visual Studio 2010 Code Editor UI Improvements: from IntelliSense to Zoom
- Learn new language features, including dynamic language support, lambda expression improvements, and more
- Add simple parallel support, using the Task Parallel Library
- Examine variance (covariance and contravariance), and how these features make interface work the way you always thought they should

### ASP.NET Web Forms Improvements

- Investigate Visual Web Designer enhancements, including new templates, code snippets, and JavaScript IntelliSense enhancements
- Learn about new ASP.NET core services, including web.config file minification, output caching, and URL routing
- Discover new Web Forms features: set meta tags, control view state, create predictable client IDs, persist row selection, add charts, and more
- Deploy web applications using new Visual Studio 2010 features

### Windows Workflow Foundation

- Introduce Windows Workflow Foundation (WF)
- Review workflow activities
- See how to build a workflow
- Learn how to host workflows in applications
- See how applications and workflows pass data

### Windows Communication Foundation Improvements

- Review how to build, host and call WCF services
- Explore Service Configuration Improvements
- See how clients can discover services at runtime
- See how services can inform clients when they go online and offline

### What's New in WPF 4.0

- Learn about WPF Data Binding and the DataGrid Control
- Investigate the Updated WPF and Silverlight Designer
- Use the Visual State Manager to Create Unique States for Controls
- Try out the New Calendar and DatePicker Controls

### Introducing Silverlight Using Visual Studio 2010

- Learn why you would use Silverlight to build an application, and Silverlight's history
- Create a simple video player using Silverlight
- Run Silverlight applications out of the browser
- Investigate multi-page Silverlight applications using the Silverlight Navigation Framework
- Work with data in Silverlight applications

### Data Enhancements

- See an overview of the Entity Framework
- Learn how to create an Entity Data Model
- Learn various techniques for using LINQ to Entities to query data in a SQL Server database
- See an overview of ADO.NET Data Services
- Learn how to create and call an ADO.NET Data Service

### SharePoint 2010 Development

- Learn how to build SharePoint 2010 applications with Visual Studio
- See how to create lists and visual Web parts
- See how to use LINQ to SharePoint to query lists
- Explore how to access SharePoint data from client applications

Number of Modules	Media Run Time	Total Learning Time	Printable PDF Courseware	Hands-on Labs	Sample Code	Pre/Post Exams	Supports Microsoft Exam Number
8 Modules	11+ hours	11+ hours	N/A	N/A	Yes	N/A	N/A