

Advanced Microsoft® Visual Basic® .NET 2003



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.

Total Learning Time: 11-33 hours

Media run time is 11+ hours, total learning time could be up to 33 hours if the courseware, labs and exams are utilized. 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 investigate some of the important classes and tools provided by the .NET Framework that you might have missed in earlier courses. This course focuses on important development techniques, such as delegates and events, asynchronous programming and multi-threading, Windows Management Instrumentation (WMI) support in the System.Management namespace, serialization, attributes and reflection, printing, working with XML documents, and creating custom controls.

Course Outline:

Delegates and Events

- Motivating Delegates
- Introducing Delegates
- Working with Events

Asynchronous Programming in VB.NET

- Processes and Threads
- Using Delegates
- Using the Thread Pool Directly

Timers and Threads

- Using .NET Timers
- Creating Your Own Threads

Filling the .NET Gaps with WMI

- Introducing WMI
- Getting Started with WMI
- WMI Queries, Properties, and Methods
- WMI Server Explorer Extensions

WMI Events and Asynchronous Handling

- Creating WMI Event Handlers
- Working with WMI Asynchronously
- WMI Server Explorer Extensions and Events

Serialization

- Introducing Serialization
- Serializing Complex Objects
- Customizing the Serialization Process

Attributes and Reflection

- Introducing Attributes
- Creating and Using Custom

Attributes

- Introducing Reflection
- Using Reflection to Perform Late Binding

Printers and Printing

- ThePrintDocument Class
- The PageSettings Class
- The PrinterSettings Class
- Working with Print-Related Controls
- A More Complex Report

Reading and Writing XML

- Getting Started
- Reading XML Data
- Working with Nodes
- Creating and Modifying XML
- Dealing with Errors

Creating Custom Windows Controls

- Control Creation in Windows Forms
- Inheriting from an Existing Control
- Drawing Your Own Custom Controls
- Creating Composite Controls

Number of Modules	Media Run Time	Total Learning Time	Online Courseware*	Hands-on Labs	Sample Code	Pre/Post Exams	Supports Microsoft Exam Number
7 Modules	11+ hours	11-33 hours	600+ Pages	Yes	Yes	Yes	N/A

* Professionally printed, bound courseware (student manuals) are available. Ask for details.