



www.compvisions.com
16 Corporate Woods Blvd.
Albany, NY 12211

Computer Visions Course Outline

Get What You Want

We offer highly customizable group training courses: desktop applications, web development, networking & operating systems, technical certification, professional development & skills, help desk.

Get It When & Where You Want It

All Computer Visions courses are available for presentation on-site or off-site for your convenience. We can roll out any combination of courses at one or more locations anywhere in the United States, according to your requirements and time table. Just let us know and we'll work with you!

Corporate Training Solutions

Corporations look to us to train their employees. Why? Because our proven training methods have increased employee proficiency and productivity. We assign one person to each of our corporate clients to ensure quality service, and we also offer extranet Web registration, management, reporting and billing for all clients. Simplicity, quality and outstanding service are our hallmarks.

Consulting Solutions

Consulting is about trust, service and accountability. Our consulting division is one of the fastest-growing around. Why?

2415: Programming with the Microsoft .NET Framework (MS Visual Basic .NET)

The goal of this course is to help application developers understand the Microsoft .NET Framework. In addition to offering an overview of the .NET Framework and an introduction to key concepts and terminology, the course provides a series of labs, which introduce and explain .NET Framework features that are used to code, debug, tune, and deploy applications.

Outline:

- **Module 1: Overview of the Microsoft .NET Framework**The following topics are covered in this module:Lessons
 - Overview of the Microsoft .NET Framework
 - Overview of Namespaces
- **Module 2: Introduction to a Managed Execution Environment**The following topics are covered in this module:Lessons
 - Writing a .NET Framework Application
 - Compiling and Running a .NET Framework Application
- **Module 3: Working with Components**
 - The following topics are covered in this module:
 - Lessons
 - An Introduction to Key .NET Framework Development Technologies
 - Creating a Simple .NET Framework Component
 - Creating a Simple Console Client
 - Creating an ASP.NET Client
- **Module 4: Deployment and Versioning**
 - The following topics are covered in this module:
 - Lessons
 - Introduction to Application Deployment
 - Application Deployment Scenarios
 - Related Topics and Tools
- **Module 5: Common Type System**The following topics are covered in this module:Lessons

Clients trust us to provide excellent service and expertise. Visit our [consulting section](#) for more information.

Classroom and Computer Rentals

Need space and equipment to conduct specialized presentations or classes? We can help. With our world class classrooms and state of the art projection and presentation equipment, we take care of the details so you can have a successful presentation.

- Introduction to the Common Type System
- Elements of the Common Type System
- Object-Oriented Characteristics

- Module 6: Working with TypesThe following topics are covered in this module:Lessons
 - System.Object Class Functionality
 - Specialized Constructors
 - Type Operations
 - Interfaces
 - Managing External Types

- Module 7: Strings, Arrays, and CollectionsThe following topics are covered in this module:Lessons
 - Strings
 - Collections Defined
 - .NET Framework Arrays
 - .NET Framework Collections

- Module 8: Delegates and EventsThe following topics are covered in this module:Lessons
 - Delegates
 - Multicast Delegates
 - Events
 - When to Use Delegates, Events, and Interfaces

- Module 9: Memory and Resource ManagementThe following topics are covered in this module:Lessons
 - Memory Management Basics
 - Non-Memory Resource Management
 - Implicit Resource Management
 - Explicit Resource Management
 - Optimizing Garbage Collection

- Module 10: Data Streams and Files
 - The following topics are covered in this module:
 - Lessons
 - Streams
 - Readers and Writers
 - Basic File IO

- Module 11: Internet Access
 - The following topics are covered in this module:
 - Lessons
 - Internet Application Scenarios
 - The WebRequest and WebResponse Model
 - Application Protocols
 - Handling Errors
 - Security
 - Best Practices

- Module 12: SerializationThe following topics are covered in this

module:Lessons

- Serialization Scenarios
 - Serialization Attributes
 - Object Graph
 - Serialization Process
 - Serialization Example
 - Deserialization Example
 - Custom Serialization
 - Custom Serialization Example
 - Security Issues
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- Module 13: Remoting and XML Web Services
 - The following topics are covered in this module:
 - Lessons
 - Remoting
 - Remoting Configuration Files
 - XML Web Services