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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.

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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!

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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.

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#2565A: Developing Microsoft.NET Applications for Windows (Visual Basic .NET)

Description: This five-day instructor-led course provides students with the skills required to build Microsoft Windows Forms applications by using the Microsoft .NET Framework. This course is a part of the Microsoft Visual Basic .NET curriculum and is intended to provide Visual Basic programmers with the skills required to create Windows Forms applications by using the .NET Framework. The course will cover the major topics for Windows client application programming on the .NET Framework. These topics include: Windows Forms, GDI+, simple data access, interoperating with unmanaged code, threading and asynchronous programming issues, simple remoting, Web access, XML Web services consumption, debugging, security, and deployment issues for desktop applications.

Course Outline:

Module 1: Introducing Windows Forms

This module introduces Windows forms and controls in the .NET Framework. Students will learn how to create and populate base forms and inherited forms by using the Microsoft Visual Studio .NET Framework. They will also learn how to add controls to a form and how to create Multiple Document Interface (MDI) applications.

Lessons

- Creating a Form
- Adding Controls to a Form
- Creating an Inherited Form
- Organizing Controls on a Form
- Creating MDI Applications

Lab : Creating Windows Forms

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- Creating a New Windows Form
- Inheriting a New Form from an Existing Windows Form

After completing this module, students will be able to:

- Create a form and add controls to it.
- Create an inherited form by using Visual Inheritance.
- Organize controls on a form.
- Create Multiple Document Interface (MDI) applications.

Module 2: Working With Controls

This module explains how to create event procedures (handlers) in your application that will run in response to user actions. Students will learn how to add programming logic to the event procedures of a control, how to use the Windows Forms intrinsic controls, dialog boxes, and menus, and how to validate the data entered by users of your application.

Module 3: Building Controls

This module explains how to extend the functionality of an existing Windows control, combine multiple existing controls into a composite control, and build a new custom control. Students will also learn how to add design-time licensing support to a control.

Module 4: Using Data in Windows Forms Applications

This module explains how to bind Windows forms to various data sources by using ADO .NET. Students will learn about binding Windows forms to data from sources such as databases and XML files. Students will get an overview of the XML Web services programming model and learn how to create applications that use XML Web services. The module also provides an overview of how to persist data to and read data from files and isolated storage.

Module 5: Interoperating with Managed Objects

This module explains how to use .NET and COM components in a Windows Forms application. Students will also learn how to call Win32 APIs in their Windows Forms application.

Module 6: Printing and Reporting in Windows Forms Applications

This module explores how to implement printing in a Windows Forms application and how to create reports in a Windows Forms application by using Crystal Reports for Visual Studio .NET.

Module 7: Asynchronous Programming

This module explains how to use the techniques of asynchronous programming and multithreading to avoid blocking the user interface of an application.

Module 8: Enhancing the Usability of Applications This module covers how to use the accessibility, Help, and localization features available in the .NET Framework.

Module 9: Deploying Windows Forms Applications

This module explains assemblies and how to use strong-named assemblies and the Global Assembly Cache (GAC) in the .NET Framework. Students will also learn how to configure and deploy .NET-based applications.

Module 10: Securing Windows Forms Applications This module explains the .NET Framework security model. Students will learn how to use .NET Framework security features in Windows Forms applications.