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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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2311 PROGRAMMING WITH MICROSOFT ASP.NET

Description:

This course provides students with the knowledge and skills that are needed to successfully design and implement Web applications using Microsoft ASP.NET.

Who Should Attend:

This course is intended for existing ASP.NET developers who are writing solutions using Microsoft ASP.NET. This course assumes that the students are familiar with Hypertext Markup Language (HTML), client-side and server-side scripting, ASP.NET, Microsoft ActiveX® Data Objects for .NET (ADO.NET), and a Microsoft .NET-based programming language.

Course Outline:

Lesson 1: Considerations for Building Advanced ASP.NET Applications

Building Enterprise Web Applications With ASP.NET

Presentation Layer

Data Access Layer

Business Logic Layer

Lesson 2: Designing Data Tier Components

Implementing Data Access Logic Components

Designing a Data Abstraction Layer

Performance Tuning for Data Access

Managing Settings and Configuration with Typed DataSets

Best Practices for Reliable Data Access

Lesson 3: Web Presentation Patterns

Using Design Patterns in Web Applications

Creating Dynamic Interfaces with User Controls

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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.

Using Inheritance to Define Basic Site Functionality

Using Collection Classes for DataBinding

Properties and Elements of the DataGrid

Optimal Data Paging for DataGrids

DataGrid Editing Techniques

Creating Master/Detail Views with a DataGrid

Lesson 4: Building Custom Controls

Architecture of Custom Controls

Creating Control Object Models

Using Events in Controls

Rendering Control Output

Creating Data-Bound Custom Controls

Lesson 5: Using Graphics Classes to Generate Images

Major System.Drawing Classes

Methods for Generating Images

Using Data to Generate Charts

Lesson 6: Creating a Secure Infrastructure

ASP.NET Security Models

Role-based Authorization Techniques

Process Identity and Accessing Resources

Securing Communication with Encryption

Lesson 7: Caching Patterns and Practices

Effective Caching Strategies

Managing Session Data

Client-side Caching Options

Lesson 8: Diagnostics and Exception Handling

Exception Handling Strategies

Best Practices for Debugging

Using Application Center Test for Performance Testing

Applying Performance Counters to Profile Web Applications

Lesson 9: Interoperability with COM

Overview of COM Interop

Creating and using a Runtime Callable Wrapper

Guidelines and Issues in COM Interoperation

Lesson 10: ASP.NET Configuration

Configuration Schema Overview

Examples of Built-in Configuration Settings

Creating Custom Configuration Settings

Encrypting Configuration Settings

Using the Configuration Management Application Block

Lesson 11: Administering and Extending the Portal

Creating Flexible Site Administration Tools

Adding Modules to the Portal