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Course 460:

Introduction to the .NET 2.0 Framework (4 days)

Course Description...

The *Introduction to the .NET 2.0 Framework* course provides students with a fundamental look at what Microsoft's .NET Framework offers and the types of applications that it can build. Many different technologies are covered through hands-on exercises and instructor-led discussions including .NET languages, security, ASP.NET Web applications, Web Services, COM Interop, plus more. If you're interested in developing high performance applications using the .NET framework, this course will provide the fundamentals you need to know to get started.

You will learn...

- New features in .NET 2.0
- .NET keywords and terms
- Key .NET technologies
- Language choices in .NET
- .NET Tool Options
- Types of applications that can be built using .NET
- How security is integrated into the .NET framework
- Web Service and Service Oriented Architecture (SOA) fundamentals
- How to leverage COM object in .NET applications
- Working with ADO.NET classes
- New 2.0 Desktop Application Deployment Options

Who should attend...

This course is designed to be taken by managers, developers or project managers seeking a better understanding of what the .NET Framework offers.

Prerequisites...

Familiarity with a programming language and the application development lifecycle is highly recommended. C# or VB.NET code can be used during the lab exercises.

See next page for a detailed course outline...



Course Outline...

Introduction and Overview

Course Objectives

Day 1

- **Introduction to the .NET Framework**
 - What is the .NET Framework?
 - What does .NET Offer?
 - What applications can be built using .NET?
 - What platforms does .NET run on?
 - Alternative Platforms – The Mono Project
 - How does .NET compare with other development platforms?
 - New features in .NET 2.0
- **Compiling .NET Code**
 - Introduction to Code Compilation
 - Compiling .NET Code
 - Microsoft Intermediate Language (MSIL)
 - What is the Common Language Runtime (CLR)
 - Understanding Namespaces and Assemblies
- **Choosing a .NET Language**
 - Object Oriented Programming Fundamentals
 - The role of OOP in .NET
 - What languages can be used in .NET?
 - Language Interoperability in .NET
 - Which language should I choose?
 - Exploring .NET languages

Day 2

- **.NET Development Tools**
 - Introduction to Visual Studio .NET 2005
 - VS.NET 2005 Features
 - Compiling and Debugging code with VS.NET
 - Open Source .NET Tools
- **Creating Windows Forms Applications**
 - What are Windows Forms?
 - Windows Forms Features
 - Using Windows Forms Controls
 - Visual Inheritance
 - Deploying Applications with ClickOnce Technology
- **Creating ASP.NET Web Forms**
 - What are ASP.NET Web Forms?
 - Web Forms Features
 - Web Forms Fundamentals
 - Web Server Controls
 - Validation Controls



Day 3

- **Creating Compact Framework Applications**
 - What are Windows Mobile Devices?
 - What is the .NET Compact Framework?
 - Compact Framework Features
 - Compact Framework Namespaces
 - Compact Framework Controls
 - Using Device Emulators
- **Data Access with ADO.NET**
 - What is ADO.NET?
 - ADO.NET 2.0 Features
 - Managed Providers in ADO.NET 2.0
 - Key ADO.NET Classes
 - ASP.NET Data Source Controls
- **Web Service Fundamentals**
 - What is a Web Service?
 - Benefits of Web Services
 - What is SOAP?
 - Web Service Architecture
 - Creating Web Services using the WebMethod Attribute
 - Consuming Web Services using a Proxy Class

Day 4

- **Securing .NET Applications**
 - Security Terminology
 - .NET Security Features
 - The Role of Code Access Security (CAS)
 - Encryption and Decryption Algorithms
 - ASP.NET Security Controls and Features
- **COM Interop**
 - Introduction to .NET Interoperability
 - Using COM objects in .NET applications
 - Using .NET objects in COM applications

Please contact your ROI representative to discuss course tailoring!!!