

DURATION ●●●●● 5 days

List price £1995 (excl. VAT)

Course code NET0030

Course Objectives

This course will provide delegates with advanced knowledge of ASP.NET 2.0 programming and techniques.

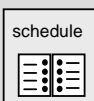
We will focus on best practises, OOP, Web Services, and focus extensively on the new ASP.NET AJAX features.

You Will Learn How To

- Build n-tier apps in .NET 2.0
- Enforce standards of code and structure
- Use ADO.NET effectively
- Create commercial quality custom server controls
- Create distributed apps with Web Services, WCF, and Remoting
- Improve performance
- Secure your application.
- Build AJAX applications with client code and server controls

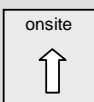
Hands on Exercises

The course will contain a substantial amount of Hands-On work. Delegates will be introduced to topics during theory sessions and these will be followed by lab exercises relating to the topic. Delegates will work on exercises using C# and VB.NET within Visual Studio 2005 and 2008 development environments. Exercises will reflect commercial scenarios.



Schedule

Freephone 0800 028 6400 for public schedule, or see www.ibinternational.co.uk



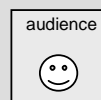
Onsite / Customised

Available as a customised course for your company. Delivered onsite or at our London offices.



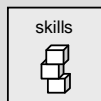
.NET – A Closer Look

.NET 2.0 was Microsoft's first major update to its successful platform for web and Windows applications, and with Visual Studio.NET 2005 their rapid development environment. .NET applications and web services can be deployed to, and used by, many platforms from desktop to mobile. A key feature of .NET is support for multiple programming languages.



Who Should Attend

Developers looking to extend their knowledge of ASP.NET applications and web services to an advanced level.



Pre Requisite Skills

ASP.NET development experience in VB.NET or C#

ASP.NET Architecture Review

Designing Layered Applications
What layers and tiers do you need or want
Choices for passing data through layers
Methodologies

Designing Data Access

DataSets and Typed DataSets
LINQ to SQL and LINQ to Entities
Code Generation tools
Third party tool options
In memory data

Using Services

Web Services Design
Using ASMX Web Services
Configuring Protocols
Binary Data
Controlling XML Serialization
Service Interfaces
Soap Headers
Consuming Web Services
Asynchronous Calls
Session State
Using WCF
Overview of WCF
Creating WCF Contracts and Services
Consuming WCF
WCF Configuration and security overview

ASP.NET Membership system

Authentication and Authorization in ASP.NET
Authentication Modes
Membership and Personalization API
Membership Server Controls
Configuring the Membership Database
Creating membership providers
Creating role providers

Securing Web Applications

Encryption of credentials and config files
Writing Secure Code
Signing Assemblies
OO And Creating Server Controls

Advanced Object Orientation in .NET

Unit Testing
Test Driven Development
Common Design Patterns
inheritance vs Composition

Creating Commercial Quality Server Controls

ASP.NET Server Controls Hierarchy
Control and WebControl
Control attributes and icons
Maintaining State
Processing Postback Data and Capturing Postback Events
Composite Controls
Databound controls
Adding Design Time Support

ASP.NET AJAX Overview

Introduction to AJAX
ASP.NET AJAX Overview
Using AJAX Extensions

Using AJAX Extensions

Calling Web Services from the Client
Updating the UI
Dealing with Exceptions
Application Services
Membership

ASP.NET AJAX Update Panel

UpdatePanel Overview
Why Use UpdatePanel Controls
How UpdatePanel Controls Work
Enabling Partial-Page Updates
Asynchronous Postbacks
What are Triggers?
Understanding UpdatePanel Refreshes

ASP.NET AJAX Control Toolkit

Overview
Exploring Control Extenders
Using the AutoComplete Extender
Using other extenders

Silverlight Essentials

Silverlight vs. AJAX applications
Understanding XAML in Silverlight
Silverlight versions
Silverlight tools
Creating and hosting Silverlight applications

ASP.NET 3.5 Preview

AJAX Browser History support
Dynamic Data
ASP.NET Web Data Services
Silverlight Controls
ASP.NET MVC Framework