
ASP.NET 4.0 with LINQ and AJAX

Duration: 5 Days Course Code: ASPNET

Overview:

This course has been designed for candidates new to the .NET development platform, although candidates with experience solely in Windows application development will find almost all of the content beneficial. Candidates will be introduced to the .NET framework and will learn to develop web applications using C# or VB.NET. Our hands-on ASP.NET 4.0 training course has been developed for real-world, commercial scenarios by our expert instructors. The course contains many ASP.NET 4.0 tutorials based on real-world scenarios. At course completion candidates should be familiar with the framework, experienced in developing web application and conversant with database access using LINQ.

Target Audience:

Developers who are new to .NET or have only used .NET for Windows development, or have only used ASP.NET 1.1, who wish to develop ASP.NET 4.0 applications using C# 3.0, VB9, AJAX, and LINQ.

Objectives:

- Understand the .NET Framework and the CLR.
 - Use Visual Studio 2010 effectively.
 - Learn C# or VB.NET.
 - Create commercial ASP.NET Web Applications.
 - Understand OO Programming, Classes, and Objects.
 - Debug Applications.
 - Develop user interfaces using Master Pages, User Controls and Themes.
 - Use DataBinding.
 - Use LINQ (Language-Integrated Query) to read from and write to Databases.
 - Develop Rich Internet Applications using ASP.NET AJAX.
-

Prerequisites:

- Delegates should have a strong background in application development, preferably with some experience of a fully compiled development language such as VB6 or Java, and knowledge of web technologies such as JavaScript would be useful too.
-

Content:

Module 1 The .NET Framework

- The CLR
- The Framework Class Library
- Intermediate Language
- .NET Languages
- The Global Assemblies Cache
- Disassemblers

Module 2 Visual Studio 2010

- Creating Projects
- Project Anatomy
- Using the IDE
- Code Snippets

Module 3 Language Syntax

- VB.NET vs C#
- Comments
- Data Types
- Variables
- Operators
- Conditional Statements
- Looping Structures
- Functions
- Exception Handling

Module 4 Classes ; Objects

- Classes and Objects
- Partial Classes
- Methods, Properties and Events
- Constructors
- Property Procedures
- Enumerations
- Reference vs. Value Types
- Structures
- Namespaces

Module 5 Debugging Applications

- Breakpoints
- Tracepoints
- Stepping through code
- Data Tips ; Visualisers
- Watch windows
- Command Windows
- Call Stack

Module 6 ASP.NET Introduction

- HTML ; Server controls
- Postbacks
- Page Lifecycle

Module 7 User Interface Development

- Master Pages
- Themes
- User Controls
- Navigation
- Validation

Module 8 Configuration

- Configuration Files
- Developer Settings
- Administration Tools

Module 9 Membership ; Personalisation

- Membership Providers
- Login Controls
- Roles
- State Management
- Personalisation
- Web Parts

Module 10 Error Handling

- Page Level Exceptions
- Site Level Exceptions
- Custom Error Pages
- Tracing

Module 11 Data Binding

- Data Sources
- Data Controls
- Parameterised Queries
- Updating bound controls

Module 12 AJAX

- AJAX Architecture
- Client vs Server
- The Async Post Back model
- Using Update Panel controls
- Update Progress

Module 13 LINQ

- Creating a DataContext
- Querying the Database
- Updating the Database
- Using the LinqDataSource

Module 12 Deployment

- XCopy deployment
- Copying web sites
- Publishing web sites
- Setup Projects

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.co.uk

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK