



502-B, 6th Floor, Concorde Building, RC Dutt
Road, Alkapuri, Vadodara – 390007.

Phone: 0265 3051919

Mobile: +91 - 8000195514

E mail: vadodara@paceinfonet.com

Web: www.paceinfonet.com

Asp.NET Programmer – Asp.NET C#, JavaScript & jQuery Training

Duration:

The total duration of the course is 9 weeks inclusive of 1 week mini project to test the skills before certification.
Maximum 2 hours per day 6 days a week are to be attended.

Pre-requisites:

C Programming.

Course-Highlights:

- Focused training on Web Based applications
- Assignments based on real time scenarios.
- Supporting languages like JavaScript & jQuery also included.
- Opportunity for 2 months LIVE Project Training after certification.

Covered Topics:

+ Introduction to .NET

- Overview of the .NET Framework
- How .NET is Different from Traditional Programming
- Common Language Runtime (CLR)
- Common Language Specification (CLS)
- Common Type System (CTS)
- .NET Assemblies
- Microsoft Intermediate Language (CIL)
- .NET Namespaces
- .NET Framework Class Library

+ Introduction to Visual Studio

- Setting Profiles
- Creating a Project
- Using the Code Editor
- Setting Project Properties
- Adding References
- Compiling a Program
- Running a Program
- Debugging a Program
- Using the MSDN (Help)

+ Language Fundamental

- C# Program Structure
- Defining Namespaces
- Understanding C# Data Types
- Defining Variables and Constants

- Comparing Value Types versus
- Reference Types
- Working with Operators and Expressions
- Performing Type Conversions
- Using Console I/O
- Formatting Numbers, Date and Times

✦ **Conditionals and Looping**

- if/else
- switch
- while and do/while
- for
- foreach

✦ **Functions and Parameters**

- Defining Static and Instance Functions
- Passing Parameters by value and by reference
- Overloading Functions
- Optional Parameters
- Using Variable Length Parameter Lists

✦ **Exception Handling**

- What are Exceptions?
- .NET Exception Hierarchy
- Catching Exceptions
- Throwing Exceptions
- Managing Resources with Finally

✦ Collections

- Defining and Using Arrays
- Understanding System.Array
- Using .NET Collections
- Working with ArrayLists and Hashtables
- Working with Lists and Dictionaries

✦ Introduction to ASP.NET

- Overview of ASP.NET 4.0
- Understanding Client-Side vs. Server-Side Execution
- Working with Web Forms
- Understanding ASP.NET ApplicationFolders
- Using Web.config

✦ Creating ASP.NET Pages

- Building ASP.NET Pages
- Using Page Directives
- working with the Code-Behind Model
- Understanding the Life-cycle of a Web Form
- Handling Page Events

✦ Using Controls

- Working with HTML Controls
- Working with Web Controls
- Creating Controls at Runtime
- Defining and Using Custom UserControls

+ Handling Events

- Understanding the Event Driven Programming Model
- Writing Event Handlers
- Understanding PostBack versus Non-PostBack Events
- Sharing Event Handlers betweenEvents
- Using Global.asax

+ Validations

- Understanding the ASP.NET Validation Controls
- Performing Client-Side Validation
- Performing Server-Side Validation
- Using the Regular Expression Validator
- Customizing Validation
- Working with Validation Groups

+ Master Pages

- Understanding the Master Page Architecture
- Designing a Master Page
- Designing Content Pages

+ Maintaining State

- Understanding why the Web is Stateless
- Maintaining State within ASP.NET Applications
- Using the Application Object
- Using the Session Object
- Using the ViewState Object
- Reading and Writing Cookies
- Using the Query String

+ ADO.NET

- Understanding the ADO.NET ObjectModel
- Connected vs. Disconnected Access
- Using a Connection to Connect to a Data Source
- Using a Command to Execute Queries
- Using a DataReader
- Using the DataSet
- Using DataAdapters

+ Data Binding

- Understanding ASP.NET Data Binding
- Examining ASP.NET Data Bound Controls
- Using the ListBox Control
- Using the GridView Control
- Using the DetailsView Control
- Using the FormView Control

+ Securing ASP.NET Application

- Understanding the ASP.NET 4.0 Security Models
- Authenticating Users
- Authorization User Requests
- Using the ASP.NET Login Controls
- Using the ASP.NET Web Site
- Administration Tool

+ Introduction to Web Service

- Overview of Web Services
- Creating a Web Service

+ ASP.NET AJAX

- Conceptual Overview about Ajax Technology
- Using Asp.net Ajax Control Toolkits
- Using Server Side Asp.Net Ajax
- Using Client Side Asp.Net Ajax
- Client-Side JavaScript programming

+ LINQ

+ Mini Project