

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Developing Web Sites Using ASP.NET 4.5 and C#

Course Description:

ASP.NET is Microsoft's technology for building dynamically generated web pages from database content. Originally introduced in 2002, ASP.NET has undergone many changes in multiple versions and iterations as developers have gained a decade of experience with this popular technology. With that decade of experience, this course presents a fresh, new overhauled approach.

- A new focus on how to build ASP.NET sites and applications relying on field-tested reliable methods
- Integration of "One ASP.NET" philosophy treating ASP.NET Web Forms and ASP.NET MVC as equal tools each with their proper time and place
- Coverage of hot new ASP.NET 4.5 additions such as the Web API, Websockets and HTML5 & CSS3 use in layout but only to the extent that the tools themselves are practical and useful for working ASP.NET developers

Pre-requisites:

This course is designed for anyone involved in the development of Web applications using Microsoft technology. Programming experience in C# is required to our Introduction Course level, and a fundamental knowledge of HTML are assumed.

Course Content:

- **ASP.NET FUNDAMENTALS**
 - One asp.net
 - Html5 and CSS3 design with asp.net
 - Asp.net web forms structure
- **INTRODUCTION TO THE ASP .NET PAGE LIFECYCLE WITH CONTROLS**
 - Asp.net server controls and client-side scripts
 - Asp.net web server controls
 - Validation server controls
 - User and server controls

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- **INTRODUCTION TO DATABASES**
 - What is a database?
 - Different kinds of relational databases
 - Using sql to work with database data
 - Retrieving and manipulating data
 - Creating your own tables
 - Data types in sql server

- **DATA ACCESS**
 - Data binding
 - Model binding
 - Querying with linq
 - Entity framework
 - Asp.net dynamic data
 - Working with services

- **PROVIDERS**
 - Introduction to the provider model
 - Extending the provider model

- **ASP.NET FEATURES**
 - Working with master pages
 - Site navigation
 - Personalization
 - Membership and role management
 - Security

- **APPLICATION STATE**
 - State management
 - Caching

- **INTRODUCTION TO CLIENT-SIDE DEVELOPMENT**
 - Asp.net ajax
 - Ajax control toolkit
 - JQuery
 - Real-time communication
 - Developing websites with mobile in mind

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- **APPLICATION CONFIGURATION AND DEPLOYMENT**
 - Configuration
 - Debugging and error handling
 - Modules and handlers
 - Asynchronous communication
 - Building global applications
 - Packaging and deploying asp.net applications
- **ADDITIONAL ASP.NET TECHNOLOGIES**
 - Introduction to asp.net mvc
 - Introduction to asp.net web pages and razor

Course Duration:

5 Days