

Price: R5,900.00 excl. VAT
Duration: 5 days
Code: ASPNT

ASP.NET Development

Description

The ASP.NET Development course covers the principles of web application development using the ASP.NET environment and any .NET programming language, such as Visual Basic or C#. The course covers the common language runtime, web forms, web controls, and connections to databases.

Objectives

Delegates who complete the ASP.NET Development course will be able to:

- Create ASP.NET programs in C# or Visual Basic.
- Use ADO.NET compliant databases in programs.
- Create simple Web Services.

Intended Audience

Developers who want to develop web applications using the .NET framework.

Prerequisites

The Web Development with HTML and CSS course or experience in HTML and CSS.

Delegates must have attended the Visual Basic or C# courses. Alternatively delegates should have experience programming with VB.2005 or C#.

Previous experience in ASP or another server-side development environment, and a working knowledge of SQL statements or the SQL Fundamentals will be an advantage.

Course Contents

The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.

Introduction to ASP.NET • The Common Language Runtime. • ASP.NET compared to ASP 3.0. • Upgrade and portability issues. • Components, Assemblies, Tools.

ASP.NET Program Structure • Code-Behind. • Events. • Common Language Runtime. • Compiled code. • Web forms. • Configuration. • Components. • Server-side Controls. • Maintaining state.

Object Orientation in ASP.NET • OO Overview. • Overloading. • Overriding. • Virtual methods. • Shadowing. • Object scope & access. • Statefull versus stateless.

Common Programming Tasks • Structure. • Variables. • Data types. • Type safety. • Arrays. • External libraries. • Assemblies. • Name spaces. • CLR system classes. • The COM Interop library.

Web Form and Web Controls • Web forms. • Operation. • Visual inheritance. • Validation. • State. • Creating controls. • Properties, methods and events. • Intrinsic and custom controls.

Procedures, Functions and Program Statements • Built-in system functions. • Procedures and functions. • Optional parameters. • New ASP.NET constructs. • Structured exception handling. • Unstructured error handling.

Database Development • ADO.NET. • Data providers. • ODBC, OLEDB and SQL Server. • System.Data.sqlClient. • Connection & Command objects. • Data Adapter, Reader, Set & table objects. • Connected vs disconnected. • SQL & stored procedures. • Data aware controls.

Miscellaneous • Debugger. • ASP.NET and XML. • Security. • Scalability. • Configuration. • Interoperability.