

Price: R6,900.00 excl. VAT
Duration: 5 days
Code: ASPNT

ASP.NET Development

Description

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

Objectives

Delegates who complete this course will be able to:

- Create ASP.NET programs in C# or VB.NET.
- 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 Client-side Web Development course or experience in HTML and CSS.

Delegates should have attended the Visual Basic 2005 or C# courses. Alternatively delegates should be familiar with VB.NET 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

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.