
ASP.NET Web Pages and Web Services – level 2

National Competency Standard (ICA05):
ICAA5141B Design dynamic websites to meet technical requirements



Objectives

In this course, you will learn how to use Visual Studio.NET and Visual Basic.NET to build ASP.NET Web pages and XML Web services. You'll gain an understanding of the new architecture behind ASP.NET and how to use the new server controls. You also learn how to use ADO.NET to create data-driven ASP.NET Web forms.

Pre-Requisites

NDA's *ASP.NET and the .NET Framework - Level 1* course or equivalent knowledge.

Duration

Three days.

Optional Assessment

This is a nationally recognised training program. Participants who successfully complete the optional assessment component of this course will receive a Statement of Attainment for the unit of competency outlined above (additional fee applies). Participants who choose not to be assessed will receive a Certificate of Attendance. The case study assignment is completed in the participant's own time.

Course Content

Validating User Input

- Overview of ASP.NET Validation Controls
- Using the Simple Validators
- Using the Complex Validators
- Summarizing Results with the ValidationSummary Control

Using Rich Server Controls

- Introduction to Rich Controls
- The Calendar Control
- The AdRotator Control
- The XML Control

Accessing Data with ADO.NET

- Overview of ADO.NET
- Connecting to Data
- Executing Commands
- Working with Data
- Choosing an ADO.NET Provider

Using the DataList and Repeater Controls

- Overview of List-Bound Controls
- Creating a Repeater Control
- Creating a DataList Control

Working with the DataGrid Control

- Introduction to the DataGrid
- Setting Up the DataGrid
- Using Advanced DataGrid Features
- Adding Advanced Features

Managing Data with ADO.NET DataSets

- The Role of DataSets in ADO.NET
- Using DataSets in ASP.NET
- Saving DataSets in Session State
- Using DataTable Constraints and DataSet DataRelations
- Using DataSets with DataAdapters to Modify Data
- The Transactional Model in DataSets

Creating XML Web Services

- The Motivation for XML Web Services
- Creating an XML Web Service with Visual Studio .NET
- Designing XML Web Services

Consuming XML Web Services

- Creating Web Services Clients
- HTTP Clients
- Creating .NET Consumers
- Web Services and Legacy Clients
- Discovering Web Services Using UDDI

Migration and Interoperability

- Migrating to ASP.NET
- Using COM Objects in ASP.NET
- Using Platform Invocation Services
- Using .NET Components from COM