

Transition your MCPD Web Developer Skills to MCPD ASP.NET Developer 3.5 (VB)

- **Course Number:** 70-567 UPGRADE

Certification Exam

70-567 - UPGRADE: Transition your MCPD Web Developer Skills to MCPD ASP.NET Developer 3.5 (VB)

Course Overview

This exam is intended for candidates who hold an MCPD web Developer 2.0 certification and wish to upgrade to MCPD ASP.NET Developer 3.5.

Questions that contain code will be presented in either VB or C#. Candidates can select one of these languages when they start the exam.

Prerequisites/Audience

Candidates for this exam use Microsoft Visual Studio in a team-based, medium to large development environment. Candidates should have at least two to three years' experience developing Web-based applications by using Microsoft ASP.NET. Candidates should also have a minimum of one year of experience with the following:

- Database access by using Microsoft ADO.NET classes in the .NET Framework
- Web Services
- State management
- ASP.NET configuration
- Monitoring Web applications
- Debugging
- Application and page life-cycle management
- Security aspects such as Forms Authentication and membership and roles
- ECMAScript (JavaScript, Microsoft JScript)
- Internet Information Server (IIS)

Candidates should be very familiar with Visual Studio 2005 or later and the .NET Framework classes that are related to ASP.NET and ADO.NET. In addition, candidates should have a good grasp of ASP.NET AJAX.

Course Outline

Course Introduction

2 m

Chapter 01 - ASP.NET Overview

3h 41m

ASP.NET Overview

ASP.NET Architecture

Pages

Page Compile

Library

Development

IIS Architecture

IIS Authentication

IIS Handler Mappings

ASP.NET Projects and Templates

Demo - ASP.NET Projects and Templates

ASP.NET Folders and Files

Code Locations

Demo - Code Locations

ASP.NET Page

Page and User Control Directives

Demo - ASP.NET Page

Page Life Cycle

Page and Control Life Cycle Events

PostBack Mechanism

View State and Control State

Page.IsPostBack Property

Demo - Page Life Cycle and Page Postbacks

Server Controls

HTML Controls

Standard Controls

Data Controls

Demo - Server Controls

Intrinsic Objects

Demo - Intrinsic Objects

Remote Methods

Demo - Calling Remote Methods

Generic Handlers

Demo - Generic Handlers

ASP.NET Providers

Page Redirection

Demo - Page Redirection

Asynchronous Pages

Asynchronous Pages - Code Example

Demo - Asynchronous Pages

Chapter 01 Review

Chapter 02 - Page Validation

33m

Page Validation

Page Validation Concepts

Flow

Types

RequiredFieldValidator

CompareValidator

RangeValidator

RegularExpressionValidator

CustomValidator

Page.IsValid Property

ValidationSummary Concepts

ValidationSummary Code

ValidationGroup Property

Demo - Validation Controls

Chapter 02 Review

Chapter 03 - Look and Feel

1h 36m

Look and Feel

Master Pages and Content Pages

Demo - Master Pages and Content Pages

Nested Master Pages

Demo - Nested Master Pages

Accessing Master Page Content

Demo - Accessing Master Page Content

Strongly Typed Master Pages

Demo - Strongly Typed Master Pages

Dynamic Master Pages

Demo - Dynamic Master Pages

Themes, Skins, CSS, Resources

Demo - Themes, Skins, CSS, Resources

Accessing Form Elements

Demo - Accessing Form Elements

Accessing Page Headers

Demo - Accessing Page Headers

Accessing Browser Info

Demo - Accessing Browser Info

Dynamically Loading User Controls

Demo - Dynamically Loading User Controls

Profile Properties

Demo - Profile Properties

Web Parts

Demo - Web Parts

Chapter 03 Review

Chapter 04 - Site Navigation

1h 40m

Site Navigation

Navigation Architecture

XmlSiteMapProvider

SiteMapDataSource

Demo - Navigation Architecture

TreeView

Menu

Demo - TreeView and Menu

SiteMapPath

Demo - SiteMapPath

Linking Site Map Files – Code Part 1

Linking Site Map Files – Code Part 2

Linking Site Map Files – Code Part 3

Demo - Linking Site Map Files

Selecting Site Map Files

Demo - Selecting Site Map Files

Security Trimming

Demo - Security Trimming

Site Map Localization

Localization Example

Demo - Site Map Localization

Custom Site Map Provider Concepts

Custom Site Map Provider – Code Part 1

Custom Site Map Provider – Code Part 2

Demo - Custom Site Map Provider

Site Map Manipulation

Demo - Site Map Manipulation

Chapter 04 Review

Chapter 05 - Data Binding

41m

Data Binding

Data Binding Syntax

Data Binding Syntax - Code Part 1

Data Bound Controls

Data Binding Syntax – Code Part 2

Data Binding Syntax - Code Part 3

Eval and Bind

Data Binding Syntax - Code Part 4

XML Data

Data Binding Syntax - Code Part 5

Result

Demo - Data Binding Syntax
Data Sources
Demo - Data Sources
Data Bound Controls Cont.
DataGrid
DataList
Repeater
ListView
GridView
FormView
DetailsView
TreeView
DataPager
Demo - Data Bound Controls
Sorting and Paging
Demo - Sorting and Paging
Chapter 05 Review

Chapter 06 - ADO.NET and XML Data

1h 9m

ADO.NET and XML Data
ADO.NET Architecture
Object Model
Two Alternatives
SqlConnection Object
SqlCommand Object
Connected Data Access
Connected Data Access - Code Example
Connected Data Access – IE Example
Demo - Connected Data Access
Disconnected Data Access
Fill Method
Disconnected Data Access - Code Example
Disconnected Data Access – IE Example
Demo - Disconnected Data Access
Data Server Controls
Steps
List Control DataSet Binding
Demo - List Control DataSet Binding
GridView and SqlDataSource
GridView and SqlDataSource – IE Example
Demo - GridView and SqlDataSource
Table Relationships
Table Relationship Creation
Table Relationship Navigation
Table Relationships – IE Example

Demo - Table Relationships
LINQ
Demo - LINQ
DataSet Objects and XML
Demo - DataSet Objects and XML
XML Web Server Control
Demo - XML Web Server Control
Chapter 06 Review

Chapter 07 - Tracing and Debugging

1h 22m

Tracing and Debugging
Custom Error Pages
Demo - Custom Error Pages
Exception Handling
Demo - Exception Handling
Debugging
Demo - Debugging
Tracing
Enabling
Output
Result
Trace Attribute vs. Trace Element
Tracing in Components
Demo - Tracing
Event Logging
Demo - Event Logging
Remote Debugging
Demo - Remote Debugging
Client-Side Debugging
Demo - Client-Side Debugging
Performance Counters
Demo - Performance Counters
Debugging Deployment Issues
Chapter 07 Review

Chapter 08 - Managing State

50m

Managing State
State Concepts
Application State
Demo - Application State
Session State
Storage Options
Demo - Session State
View State vs. Control State
View State

Demo - View State and Control State

Cookies

Demo - Cookies

Query Strings

Demo - Query Strings

Cookieless Sessions

Demo - Cookieless Sessions

Output Caching

Demo - Output Caching

Data Caching

Data Caching - Code Example

Demo - Data Caching

Chapter 08 Review

Chapter 09 - Configuration and Deployment

38m

Configuration and Deployment

Configuration Files

Hierarchy

Content

Demo - Configuration Files

Configuring Sections

Retrieving Data from Web.config

Demo - Retrieving Data from Web.config

Encrypted Configuration Sections

Options

Demo - Encrypted Configuration Sections

Web Application Deployment

Updates

Compiling

GAC

Demo - Web Application Deployment

Custom Configuration Sections

Demo - Custom Configuration Sections

Chapter 09 Review

Chapter 10 - Globalization and Accessibility

34m

Globalization and Accessibility

Resource Files

Globalizing and Localizing Applications

Localizing Applications

Demo - Globalizing and Localizing Applications

Accessibility

Chapter 10 Review

Chapter 11 - Custom Controls

34m

Custom Controls
Types of Custom Controls
User Controls
Creating a User Control
Adding User Control to Web Form
Demo - User Controls
Derived Controls
Demo - Derived Controls
Full Custom Controls
Features
Demo - Full Custom Controls
Templated Controls
Demo - Templated Controls
Chapter 11 Review

Chapter 12 - Security

27m

Security
Authentication vs. Authorization
ASP.NET Authentication Methods
Advantages and Disadvantages
IIS Authentication Methods
Windows-Based Authentication
Windows-Based Authentication Steps
Demo - Windows-Based Authentication
Accessing Authenticated User Info
Demo - Accessing Authenticated User Info
Forms-Based Authentication
Forms-Based Authentication Steps
Demo - Forms-Based Authentication
Configuring Security and Membership
Demo - Configuring Security and Membership
Secure Sockets Layer
Chapter 12 Review

Chapter 13 - ASP.NET AJAX

40m

ASP.NET AJAX
ASP.NET AJAX Concepts
AJAX Characteristics
AJAX Features
ASP.NET AJAX Architecture
ASP.NET AJAX Client and Server
Creating an ASP.NET AJAX Application
ASP.NET AJAX Server Controls
Partial Page Updates
Demo - Partial Page Updates

ASP.NET AJAX Control Toolkit
ASP.NET AJAX Control Toolkit Steps
Demo - ASP.NET AJAX Control Toolkit
JavaScript Programming
JavaScript Debugging
Demo - JavaScript Programming and Debugging
Creating/Registering Client Scripts
AJAX Calling Remote Methods
Options
Demo - AJAX Calling Remote Methods
Chapter 13 Review

Chapter 14 - Mobile Devices

33m

Mobile Devices
Device Capabilities Variations
Device Adapters
Mobile Web Pages and Controls
Mobile Device Emulators
Demo - Mobile Web Pages and Controls
Mobile Device Detection/Redirection
Demo - Mobile Device Detection/Redirection
Device Capabilities Detection
Demo - Device Capabilities Detection
Device-Specific Rendering
Devices Code Example
Filters Code Example
Demo - Device-Specific Rendering
Custom Mobile Web Controls
Demo - Custom Mobile Controls
Chapter 14 Review
Course Closure

Total Duration: 15h 5m