

Ultimate Bootcamp®

"Where Great IT Professionals Go For Great Training"

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SharePoint 2010 Developer MCPD Ultimate Bootcamp®

MCPD Overview

This six-day, extended hours, instructor-led Ultimate Bootcamp will provide existing .NET developers with practical information and labs that enable them to build solutions on the Microsoft SharePoint 2010 platform. This bootcamp is also intended for SharePoint Development professionals who are responsible for leading projects, designing solutions, and identifying problems. In this bootcamp, students learn the skills and best practices that are required to help organizations design and develop effective SharePoint applications.

MCPD Ultimate Bootcamp Objectives

After completing this Ultimate Bootcamp, students will be able to:

- Describe the SharePoint 2010 development platform and the benefits and features that it offers to developers.
- Use development tools that are integrated with the SharePoint 2010 development platform, such as Visual Studio 2010 and SharePoint Designer 2010.
- Develop Web Parts for SharePoint 2010 solutions.
- Develop code that uses the server-side objects provided by the SharePoint 2010 development platform.
- Develop event receivers and manipulate application settings for SharePoint 2010 solutions.
- Develop solutions that access external data by using Business Connectivity Services.
- Develop workflows as part of SharePoint 2010 solutions.
- Develop code that uses the client-side objects provided by the SharePoint 2010 development platform.
- Develop server ribbon controls and client dialogs for the new user interface platform of SharePoint 2010.
- Develop Microsoft Silverlight applications that are integrated with SharePoint 2010 data and solutions.
- Develop sandboxed solutions for SharePoint 2010.
- Develop code that uses the taxonomic and user profile services of the SharePoint 2010 development platform.
- Develop code that uses the content management services of the SharePoint 2010 development platform.
- Develop strategies for caching, session state, as well as design for high performance sites by limiting page size and iteration.
- Determine the most suitable presentation method, visual elements, programmatic objects and multilingual strategy which meets the design objectives.
- Evaluate available data access and storage methods and determine the appropriate implementation for the application requirements.
- Identify the pros and cons of various data capture options and specify the most effective method or combination of methods for capturing user input.

- Evaluate the use and implementation of SharePoint artifacts and determine which artifacts best meet the needs of the application requirements.
- Design processing systems to get work done in the solution.
- Create an effective strategy for implementation and deployment of custom solutions in both development and production environments.
- Create a development strategy to allow multiple developers and administrators to work together.
- Devise a strategy for developing and deploying upgrades over time as the solution evolves.
- Develop an information architecture strategy that will support flexibility and growth and a navigation strategy that fits on top of this information architecture.
- Plan a comprehensive branding strategy and determine the necessary application elements required to support that strategy.
- Design and implement a security approach which supports both code access and end-user functionality.
- Design an effective strategy for optimizing page render times and data access methods within SharePoint 2010.
- Determine the appropriate use of unit and integration tests within SharePoint and design an effective strategy for insuring maximum code reliability.

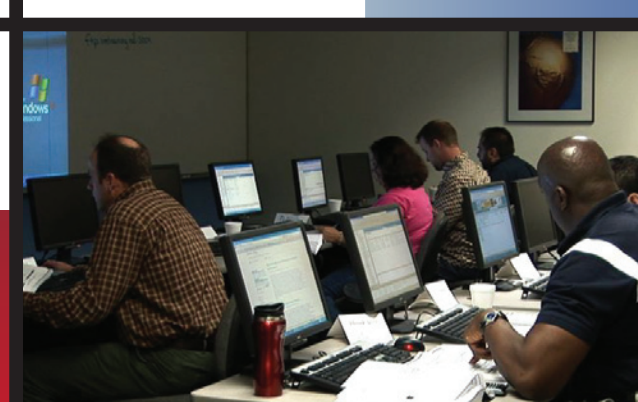
Prerequisites

Before attending this Ultimate Bootcamp, students must have:

- An understanding of the problem-solving techniques that apply to software development
- Approximately 12 months experience with ASP.NET 3.5 with Visual Studio 2008 (or later)
- Development experience with SharePoint 2007 or SharePoint 2010 and VS2010 (includes beta releases) creating code that interacts with the SharePoint Server-side APIs
- Understanding of the problem-solving techniques that apply to the Software Development Lifecycle (SDLC), including the versioning of software and the management of configuration and content in a software system
- Basic knowledge of Web application architecture
- Experience in developing in a team environment
- Working knowledge of ASP.NET and Visual Studio
- Experience in SharePoint infrastructure including servers and services
- Experience in SharePoint development including the APIs and XML schemas necessary to create web parts, perform data access, and provision fields, lists, content types, etc.
- Experience performing end user tasks with SharePoint 2007 or SharePoint 2010 and an understanding of the purpose and use of the following:
 - Lists
 - Documents and Libraries
 - Personalizing an SP page/site
 - Using MySites
 - Using SharePoint Designer

SHAREPOINT 2010
DEVELOPER MCPD

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Course Outline (Modules listed in *blue* have labs)

Module 1: Introduction to the SharePoint 2010 Development Platform

Lessons

- SharePoint 2010 as a Development Platform
- SharePoint 2010 Object Hierarchy
- Working with SharePoint 2010 Objects

Lab : Developing with the SharePoint 2010 Object Hierarchy

Module 2: Using SharePoint 2010 Developer Tools

Lessons

- Developing SharePoint Sites by Using SharePoint Designer 2010
- Developing SharePoint Solutions by Using Visual Studio 2010
- Packaging and Deploying SharePoint 2010 Solutions

Lab : Using SharePoint 2010 Developer Tools

Module 3: Developing SharePoint 2010 Web Parts

Lessons

- Developing Standard Web Parts
- Developing Connected Web Parts
- Developing Visual Web Parts

Lab : Creating SharePoint 2010 Web Parts by Using Visual Studio 2010

Module 4: Working with SharePoint Objects on the Server

Lessons

- Working with SharePoint Sites Programmatically
- Working with SharePoint Lists Programmatically
- Working with List Data Programmatically

Lab : Creating and Manipulating Server-Side Objects

Module 5: Creating Event Receivers and Application Settings

Lessons

- Creating Event Receivers
- Working with Web.Config Programmatically

Lab : Creating Event Receivers and Web.Config Modifications

Module 6: Developing Solutions by Using Business Connectivity Services

Lessons

- Business Connectivity Services Overview
- Developing External Content Types and Lists by Using SharePoint Designer
- Developing Business Connectivity Services Solutions by Using Visual Studio 2010

Lab : Building Business Connectivity Services Solutions

Module 7: Developing SharePoint 2010 Workflows

Lessons

- Creating Workflows with SharePoint Designer
- Creating Workflows with Visual Studio 2010

Lab : Creating Workflows for SharePoint 2010

Module 8: Working with Client-Based APIs for SharePoint 2010

Lessons

- Overview of the SharePoint 2010 Client Object Model
- Working with the SharePoint 2010 Client Object Model in .NET Applications

Lab : Developing .NET Applications by Using the SharePoint Client Object Model

Module 9: Developing Interactive User Interfaces

Lessons

- Creating Menu Items and Ribbon Controls
- Creating Client-Side Dialogs

Lab : Developing User Interface Components for SharePoint 2010 Solutions

Module 10: Developing Silverlight Applications for SharePoint

Lessons

- Creating Silverlight Applications for SharePoint 2010
- Deploying and Debugging Silverlight Applications for SharePoint 2010

Lab : Developing Silverlight Applications by using the SharePoint Client Object Model

Module 11: Developing Sandboxed Solutions

Lessons

- Sandboxing and User Solutions
- Restrictions for Sandboxed Solutions

Lab : Creating Sandboxed Solutions for SharePoint 2010

Module 12: Working with SharePoint Server Profiles and Taxonomy APIs.

Lessons

- User Profiles
- Taxonomies

Lab : Working with User Profiles and Taxonomies Programmatically

Module 13: Developing Content Management Solutions

Lessons

- Developing Enterprise Content Management Solutions
- Developing Web Content Management Solutions

Lab : Branding SharePoint Sites

Module 14: Advanced ASP.NET Concepts for SharePoint

Lessons

- Server Memory
- Server CPU
- Transfer and Client

Lab : Page Size and View State

Lab : Memory and Performance

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Module 15: Designing for User Experience

Lessons

- SharePoint Background
- Page Parts
- Pages
- Globalization and Localization
- Designing for Accessibility

Lab : Selecting Page Parts

Lab : Selecting Page Types

Module 16: Designing for Data

Lessons

- List and Library Fundamentals
- Large Data Strategies
- SharePoint Data Management

Lab : Time Tracking

Lab : Invoice Management

Module 17: Designing Data Capture and Integration

Lessons

- Designing for Data Capture
- Designing for Integration

Lab : Creating External Lists

Lab : Creating an InfoPath Form

Module 18: Designing Artefacts

Lessons

- Customer Requirements
- Creating Sites

Lab : Incident Response Site

Lab : Expense Reports

Module 19: Designing Processing Solutions

Lessons

- Multi-Server Configurations
- In and Out of the Sandbox
- Getting Work Done
- Working with Workflows

Lab : Engineering System

Lab : Sensor Report

Module 20: Designing Packaging

Lessons

- Understanding the Packaging Lifecycle
- Establish Design Principles

Lab : Building a Business Document Solution

Lab : Working with Dependencies

Module 21: Designing a Development Strategy

Lessons

- Developing for the Enterprise
- The Role of Logging
- Application Flexibility and Configuration

Lab : Team-based Logging and Configuration

Lab : Operational Logging

Module 22: Developing Versioning and Deployment

Lessons

- Application Lifecycle
- Versioning Strategy
- Upgrading

Lab : Versioning Assemblies

Lab : Feature Upgrade

Module 23: Designing Information Architecture and Navigation

Lessons

- Designing an Information Architecture
- Planning for Software Boundaries
- Designing Content Navigation

Lab : Categorizing Information

Lab : Implementing Farm Level Navigation

Module 24: Designing Branding and Customization

Lessons

- Introduction to Branding
- Themes
- Master Pages
- Cascading Style Sheets

- Tools Overview
- Implementing SharePoint Branding

Lab : Deploying Custom Branding

Lab : Deploying a Custom Content Type

Module 25: Designing Security

Lessons

- Security within SharePoint
- Using an Alternate Identity Store
- Forms-Based Authentication
- Deeper look at SharePoint Claims

Lab : Setting Up a Customer Service Site

Lab : Solving a Security Issue

Module 26: Designing for Page and Data Access Performance

Lessons

- Optimizing SharePoint Page Performance
- Analyzing Performance with the SharePoint Developer Dashboard
- Optimizing SharePoint Data Access Performance

Lab : Using Developer Dashboard

Module 27: Designing Testing Strategy

Lessons

- Testing Concepts
- Unit, Integration, Regression Testing
- Performance Testing

Lab : Designing a Testing Strategy