

# WC-SPT2010 - Developing Solutions with SharePoint 2010 Webcast

This instructor-led training course covers essential development techniques for SharePoint 2010. Microsoft made significant improvements in the ways developers access data in SharePoint both on and off the server. In this course developers will learn how to access data in SharePoint using LINQ for SharePoint when on the server. When connecting to SharePoint from off the server developers will also learn how and when to use the WCF Data Services (aka: OData / REST) and the Client Object Model (.NET, Silverlight and ECMAScript). In addition, developers will also learn how to read, write and surface data in many ways from external systems using the new Business Connectivity Services (BCS, formerly Business Data Catalog (BDC) in SharePoint Server 2007).

**Audience:** .NET Developer

**Format:** Live Webcast

**Length:** 5 Days (3hrs/day)

**Registration:** \$1,495

This course also addresses how users can extend the SharePoint Search functionality and experience as well as how to create content-centric solutions using SharePoint Server's Web Content Management (WCM) and Enterprise Content Management (ECM) capabilities.

## Student Audience / Prerequisites

Attendees should have professional development experience with Visual Studio, the .NET Framework and ASP.NET as well as familiarity with Microsoft Office products such as Word and Excel. It is also recommended (but not required) that attendees have a background with the previous version of Windows SharePoint Services 3.0 / Office SharePoint Server 2007 and have experience working directly with XML files in Visual Studio 2008.

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## WC-SPT2010 - Developing Solutions with SharePoint 2010 Webcast - Modules List

### Module 01 - SharePoint Foundation Development

The Server-side Object Model  
The Developer Dashboard  
Developing in terms of Features and Solutions  
Feature Upgrade Enhancements

### Module 02 - SharePoint Developer Tools in Visual Studio 2010

Introduction to the SharePoint Tools  
Creating a SharePoint Project  
Adding SPIs to a SharePoint Project  
SharePoint Tools Extensibility

### Module 03 - Creating Sandboxed Solutions

Understanding Sandboxed Solutions  
The Sandbox Execution Environment  
Sandbox Resource Monitoring  
Breaking Out of the Sandbox

### Module 04 - Pages and Navigation

Master Pages  
Application Pages  
Site Pages  
Extending the Ribbon

### Module 05 - Developing Web Parts

Overview of Web Parts  
Creating Custom Web Parts  
Persistent Properties  
Custom Editor Parts  
Advanced Web Part Development  
Connectable Web Parts  
Web Parts Verbs  
Asynchronous Processing

### Module 06 - Creating Lists & Event Handlers

Relational Lists and Large List Support  
Creating List Instances and List Definitions  
Creating and Debugging Event Receivers  
Document Libraries  
Site Definitions

### Module 07 - SharePoint Data Access Server Side

CAML  
SPQuery & SPSiteDataQuery  
LINQ Primer  
LINQ to SharePoint

### Module 08 - SharePoint Data Access Client Side

Introduction to SharePoint Client Object Model  
Using the Client Object Model with .NET  
Using the Client Object Model with Silverlight  
Using the Client Object Model with ECMAScript  
WCF Data Services / OData / REST

### Module 09 - Developing Workflows for SharePoint 2010

Why do we need workflow?  
Comparing Custom Workflow Creation Tools  
Visio 2010 + SharePoint Designer 2010  
Workflow  
Visual Studio 2010 Workflow  
Augmenting SPD2010 Workflows w/ Actions

### Module 10 - Business Connectivity Services

Overview and Architecture of Business Connectivity Services (BCS)  
External Content Types  
Using External Content Types  
Performance & Security  
BCS Tooling (SPD2010 & VS2010)

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