



# Developing Microsoft SharePoint Server 2013 Advanced Solutions

Course ID#: 1450-675-13-W

Hours: 35

## Course Content

### Course Description:

This course provides SharePoint developers the information needed to implement SharePoint solutions using Enterprise Search, Managed Metadata Service (MMS), Business Connectivity Services (BCS), Enterprise Content Management (ECM), Web Content Management (WCM), Social Computing features and SharePoint Apps.

### Prerequisites:

Before attending this course, students must have:

- Completed course 20488A: Developing Microsoft SharePoint Server 2013 Core Solutions (or equivalent knowledge).
- A working knowledge of using Visual Studio 2010 or Visual Studio 2012 to develop solutions.
- A basic working knowledge of SharePoint solution development, either in SharePoint 2013 or in earlier versions of SharePoint.
- A working knowledge of Visual C# and the .NET Framework 4.5.
- A basic understanding of ASP.NET and server-side web development technologies, including request/response and the page lifecycle.
- A basic working knowledge of client-side web technologies including HTML, CSS, and JavaScript.

### Audience:

The course is intended for professional developers who develop solutions for SharePoint products and technologies in a team-based, medium-sized to large development environment. The course is ideally suited to SharePoint developers who have gained some experience with SharePoint 2013 and who are looking to build on their existing skills.

### Topics:

The Developing Microsoft SharePoint Server 2013 Advanced Solutions course will cover the topics listed below.

#### Creating Robust and Efficient Apps for SharePoint

##### Lessons:

- Apps for SharePoint
- Communicating with SharePoint from an App
- Authenticating and Authorizing Apps for SharePoint
- Designing Apps for Performance

#### Developing Managed Metadata Solutions

##### Lessons:

- Managed Metadata
- Configuring Managed Metadata Term Sets
- Working with Managed Metadata Fields



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## Interacting with the Search Service

### Lessons:

- Understanding the SharePoint 2013 Search Service
- Building Search Queries with KQL and FQL
- Executing Search Queries from Code

## Customizing the Search Experience

### Lessons:

- Customizing Query Processing
- Customizing Search Results
- Customizing Content Processing

## Implementing Enterprise Content Management

### Lessons:

- Working with eDiscovery
- Working with Content Management
- Automating Records Management

## Developing a Publishing Site for Web Content

### Lessons:

- Programming with the Web Content Publishing API
- Developing Page Components for Web Content Publishing

## Structuring and Publishing Websites for All Users

### Lessons:

- Website Structure and Navigation
- Publishing Content
- Publishing to Mobile Devices
- Multi-language sites using Variations

## Developing Optimized Internet Sites

### Lessons:

- Optimizing a SharePoint Site for Search Engines
- Optimizing Performance and Scalability

## Working with Business Connectivity Services

### Lessons:

- Business Connectivity Services in SharePoint 2013
- Creating BDC Models in SharePoint Designer
- Creating BDC Models in Visual Studio 2012

## Creating Advanced Business Data Connectivity Models

### Lessons:

- Configuring BDC Models for Search
- Developing Custom Connectivity Components
- Working with External Events and Notifications

## Working with Business Data

### Lessons:

- Working with Business Data in Composite Solutions
- Working with Business Data in Custom Solutions
- Working with Business Data in Client Applications

## Managing and Accessing User Profile Data

### Lessons:

- Overview of User Profile Data in SharePoint 2013
- Understanding Options for Accessing User Profile Data
- Managing User Profile Data
- Managing User Profile Properties



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## Customizing the Social Workload

### Lessons:

- Overview of the Social Workload
- Developing Social Solutions
- Working with Feeds

## Monitoring and Troubleshooting Custom SharePoint Solutions

### Lessons:

- Debugging SharePoint Apps in Visual Studio
- Diagnosing Faults in Deployed Apps
- Testing Performance and Scalability