



Developing Microsoft SharePoint Server 2013 Advanced Solutions

Duration: 5 Days Course Code: M20489 Version: A

Overview:

Learn to implement SharePoint 2013 solutions using Enterprise Search, MMS, BCS, ECM, and WCM, along with Social Computing features and SharePoint apps. This instructor-led course provides SharePoint developers with the skills to implement SharePoint 2013 solutions by using Enterprise Search, Managed Metadata Service (MMS), Business Connectivity Services (BCS), Enterprise Content Management (ECM), Web Content Management (WCM), Social Computing, and SharePoint Apps. This course incorporates materials from the Official Microsoft Learning Product 20489: Developing Microsoft SharePoint Server 2013 Advanced Solutions. You will gain hands-on experience as well as the skills and knowledge needed to prepare for Exam 70-489.

Target Audience:

Professional developers with SharePoint 2013 experience who want to enhance their skills and knowledge about development solutions for SharePoint 2013 products and technologies in a team-based, medium-to-large development environment

Objectives:

After completing this course, students will be able to:

- Applications for the SharePoint 2013 development platform
 - Capabilities and applications of managed metadata in SharePoint 2013
 - SharePoint 2013 search architectures
 - SharePoint 2013 document management features in code
 - Web content solutions for publishing sites
 - Device channels, managed navigation, and variations that enable you to build mobile-device friendly websites and support multiple languages with proper navigation
 - Website optimization for Internet-search engines
 - Maximizing a website's performance
 - Develop Business Connectivity Services (BCS) solutions
 - Configure advanced and custom Business Data Connectivity (BDC) models
 - Manage and access user profile data
 - Develop and customize social workload and solutions
 - Maximize performance and scalability of SharePoint 2013 solutions and apps
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Prerequisites:

Before attending this course, students must have:

- Familiarity with client-side web technologies, including HTML, CSS, JavaScript, C#, and .NET Framework 4.5
 - Understanding of ASP.NET and server-side web-development technologies that request/response and the page lifecycle
 - Working knowledge Visual Studio (2010 or 2012) to develop solutions
 - Understanding of SharePoint solution development in SharePoint 2013 or earlier versions
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Content:

Robust and Efficient Apps for SharePoint

Lesson 1

- Apps for SharePoint
- Communicate with SharePoint from an App
- Authenticate and Authorize Apps for SharePoint
- Design Apps for Performance

Develop Managed Metadata Solutions

Lesson 2

- Metadata
- Managed Metadata Term Sets
- Managed Metadata Fields

Interact with the Search Service

Lesson 3

- SharePoint 2013 Search Service
- Search Queries with KQL and FQL
- Search Queries from Code

Customize the Search Experience

Lesson 4

- Customize Query Processing, Search Results, Result Types, Display Templates, and Content Processing

Implement Enterprise Content Management

Lesson 5

- eDiscovery and Content Management
- Automate Records Management

Develop a Publishing Site for Web Content

Lesson 6

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

Structuring and Publishing Websites for All Users

Lesson 7

- Website Structure and Navigation
- Publish Content and Publish to Mobile Devices
- Multi-language Sites using Variations

Develop Optimized Internet Sites

Lesson 8

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

Work with BCS

Lesson 9

- BCS in SharePoint 2013
- Create BDC Models in SharePoint Designer and in Visual Studio 2012

Create Advanced BDC Models

Lesson 10

- Configure BDC Models for Search
- Develop Custom Connectivity Components
- External Events and Notifications

Work with Business Data

Lesson 11

- Business Data in Composite Solutions, Custom Solutions, and in Client Applications

Manage and Access User Profile Data

Lesson 12

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

Developing Microsoft SharePoint Server 2013 Advanced Solutions

Lesson 13

- Overview of the Social Workload
 - Social Solutions and Work with Feeds
- Monitoring and Troubleshooting Custom SharePoint Solutions
- Lesson 13
- Debug SharePoint Apps in Visual Studio
 - Diagnose Faults in Deployed Apps
 - Test Performance and Scalability

Labs

Lab 1: Monitoring SharePoint Health Score

- Create and Deploy an App Part
- Work with Server Health Scores

Lab 2a: Develop Managed Metadata Solutions Part 1

- Create and Configure the Corporate Structure App
- Display the Existing Taxonomy Groups
- Create a Group, a Term Set, and Terms

Lab 2b: Develop Managed Metadata Solutions Part 2

- Obtain the Web Host
- Add Metadata Site Columns

Lab 3: Executing Search Queries from SharePoint Apps

- Submit Search Queries from Client-Site Code
- Use a Custom Action to Launch a Search App

Lab 4: Configure Entity Extraction

- Create and deploy an entity extractor

Lab 5: Implement Content Management Functionality

- Create and Register a Custom Document ID Provider
- Apply a Custom Audit Policy

Lab 6: Customize a SharePoint Publishing Site

- Build a Custom Page Field Control and a Page Layout

Lab 7a: Structure a SharePoint Publishing Site

- Create a Navigation Term Set

Lab 7b: Publish for Multiple Devices and Languages

- Create a Device Channel
- Use the Device Panel Control
- Create a French Variation

Lab 8: Optimize SharePoint Publishing Sites

- Optimize a Site for Search Engines
- Maximize the Performance of a Publishing Site

Lab 9: Working with Business Connectivity Services

- Create Farm-Scoped and App-Scoped External Content Types

Lab 10: Create and Deploy a .NET Connectivity Assembly

- Create a .NET Connectivity Assembly
- Implement Entity Methods
- Deploy and Test .NET Connectivity Model

Lab 11: Work with Business Data in Apps for SharePoint 2013

- Read Business Data in Client-Side Code
- Present Business Data in an App for SharePoint

Lab 12a: Access User Profile Data

- Add People Search Functionality to an App
- Display User Properties in the App

Lab 12b: Manage User Profile Properties

- Add Code to Display and Manage User Profile Properties

Lab 13: Create a Social App Part

- Display a Project Site Newsfeed
- Post a Message to a Newsfeed
- Use Search to Retrieve Newsfeed Posts

Lab 14: Enable ASP.NET Tracing

- Add a Diagnostics Page to a SharePoint App
- Configure ASP.NET Tracing
- Use Trace Logs

Further Information:

For More information, or to book your course, please Email us on:

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