



MCSD: SharePoint Applications

Solutions Developer

1. Course 20480B: Exam Code: 070-480

Programming in HTML5 with JavaScript and CSS3

Course Outline Module 1: Overview of HTML and CSS

- Overview of HTML
- Overview of CSS
- Creating a Web Application by Using Visual Studio 2012

Module 2: Creating and Styling HTML5 Pages

- Creating an HTML5 Page
- Styling an HTML5 Page
- **Module 3: Introduction to JavaScript**
- Overview of JavaScript Syntax
- Introduction to jQuery
- Programming the HTML DOM with JavaScript

JavaScript

- **Module 4: Creating Forms to Collect Data and Validate User Input**
- Overview of Forms and Input Types
- Validating User Input by Using JavaScript
- Validating User Input by Using HTML5

Attributes

- **Module 5: Communicating with a Remote Data Source**
- Sending and Receiving Data by Using XMLHttpRequest
- Sending and Receiving Data by Using jQuery AJAX operations
- Simplify code that serializes, deserializes, sends, and receives data by using the jQuery ajax method

Module 6: Styling HTML5 by Using CSS3

- Styling Text
- CSS3 Selectors
- Styling Block Elements
- Enhancing Graphical Effects by Using CSS3

Module 7: Creating Objects and Methods by Using JavaScript

- Writing Well-Structured JavaScript
- Extending Objects
- Creating Custom Objects

Module 8: Creating Interactive Pages using HTML5 APIs

- Interacting with Files
- Reacting to Browser Location and Context
- Incorporating Multimedia
- Debugging and Profiling a Web Application

Module 9: Adding Offline Support to Web Applications

- Reading and Writing Data Locally
- Adding Offline Support by Using the Application Cache

Module 10: Implementing an Adaptive User Interface

- Supporting Multiple Form Factors
- **Module 11: Creating Advanced Graphics**
- Creating Interactive Graphics by Using Scalable Vector Graphics
- Programmatically Drawing Graphics by Using a Canvas
- **Module 12: Animating the User Interface**
- Applying CSS Transitions
- Applying CSS Key-frame Animations
- Transforming Elements
- **Module 13: Implementing Real-Time Communications by Using Web Sockets**
- Introduction to Web Sockets
- Sending and Receiving Data by Using Web Sockets
- **Module 14: Creating a Web Worker Process**
- Introduction to Web Workers
- Performing Asynchronous Processing by Using a Web Worker

• **2 * Course 20486B: Exam Code: 070-486**

• **Developing ASP.NET MVC 4 Web Applications**

- **Module 1: Exploring ASP.NET MVC4**
- Overview of Microsoft Web Technologies
- Introduction to ASP.NET MVC 4
- Overview of ASP.NET 4.5
- **Module 2: Designing ASP.NET MVC 4 Web Applications**
- Planning in the Project Design Phase
- Designing Models, Controllers, and Views
- **Module 3: Developing ASP.NET MVC 4 Models**
- Creating MVC Models
- Working with Data
- **Module 4: Developing ASP.NET MVC 4 Controllers**
- Writing Controllers and Actions
- Writing Action Filters
- **Module 5: Developing ASP.NET MVC 4 Views**
- Creating Views with Razor Syntax
- Reusing Code in Views
- Using HTML Helpers
- **Module 6: Testing and Debugging ASP.NET MVC 4 Web Applications**
- Unit Testing MVC Components
- Implementing an Exception Handling Strategy
- **Module 7: Structuring ASP.NET MVC 4 Web Applications**
- Analyzing Information Architecture
- Creating a Navigation Structure
- Configuring Routes
- **Module 8: Applying Styles to ASP.NET MVC 4 Web Applications**
- Using Template Views
- Creating an Adaptive User Interface
- Applying CSS to an MVC Application



- **Module 9: Building Responsive Pages in ASP.NET MVC 4 Web Applications**
 - Using AJAX and Partial Page Updates
 - Implementing a Caching Strategy
- **Module 10: Using JavaScript and jQuery for Responsive MVC 4 Web Applications**
 - Rendering and Executing JavaScript Code
 - Using jQuery and jQueryUI
- **Module 11: Controlling Access to ASP.NET MVC 4 Web Applications**
 - Implementing Authentication and Authorization
 - Assigning Roles and Membership
- **Module 12: Building a Resilient ASP.NET MVC 4 Web Application**
 - Developing Secure Sites
 - State Management
- **Module 13: Using Windows Azure Web Services in ASP.NET MVC 4 Web Applications**
 - Introducing Windows Azure
 - Consuming Windows Azure Services in a Web Application
 - Designing and Writing Windows Azure Services
- **Module 14: Implementing Web APIs in ASP.NET MVC 4 Web Applications**
 - Developing a Web API
 - Calling a Web API from Mobile and Web Applications
- **Module 15: Handling Requests in ASP.NET MVC 4 Web Applications**
 - Using HTTP Modules and HTTP Handlers
 - Using Web Sockets
- **Module 16: Deploying ASP.NET MVC 4 Web Applications**
 - Deploying a Web Application
 - Deploying an MVC 4 Application

- **3.Course 20488A: Exam Code: 070-488**

- **Developing Microsoft SharePoint Server 2013 Core Solutions**

- **Course Outline**

- **Module 1: SharePoint as a Developer Platform**

- Introducing the SharePoint Developer Landscape
 - Choosing Approaches to SharePoint Development
 - Understanding SharePoint 2013 Deployment and Execution Models

- **Module 2: Working with SharePoint Objects**

- Understanding the SharePoint Object Hierarchy
- Working with Execution Contexts
- Working with Sites and Webs

- **Module 3: Working with Lists and Libraries**



- Using List and Library Objects
- Querying and Retrieving List Data
- Working with Large Lists
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- **Module 4: Designing and Managing Features and Solutions**
 - Working with Features
 - Deploying Solutions
 - Working with Sandboxed Solutions
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- **Module 5: Working with Server-Side Code**
 - Developing Web Parts
 - Using Event Receivers
 - Using Timer Jobs
 - Storing Configuration Data
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- **Module 6: Managing Identity and Permissions**
 - Understanding Identity Management in SharePoint 2013
 - Managing Permissions in SharePoint 2013
 - Configuring Forms-Based Authentication
 - Customizing the Authentication Experience
- **Module 7: Managing Custom Components and Site Lifecycles**
 - Component Overview
 - Defining Custom Lists
 - Defining Custom Sites
 - Managing SharePoint Sites
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- **Module 8: Introducing Apps for SharePoint**
 - Overview of Apps for SharePoint
 - Developing Apps for SharePoint
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- **Module 9: Client-Side SharePoint Development**
 - Using the Client-Side Object Model for JavaScript
 - Using the REST API with JavaScript
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- **Module 10: Developing Remote Hosted SharePoint Apps**
 - Overview of Remote Hosted Apps
 - Configuring Remote Hosted Apps
 - Developing Remote Hosted Apps
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- **Module 11: Publishing and Distributing Apps**
 - Understanding the App Management Architecture
 - Understanding App Packages
 - Publishing Apps

- Installing, Updating, and Uninstalling Apps
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- **Module 12: Automating Business Processes**
 - Understanding Workflow in SharePoint 2013
 - Building Workflows by using Visio 2013 and SharePoint Designer 2013
 - Developing Workflows in Visual Studio 2012
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- **Module 13: Managing Taxonomy**
 - Managing Taxonomy in SharePoint 2013
 - Working with Content Types
 - Working with Advanced Features of Content Types
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- **Module 14: Customizing User Interface Elements**
 - Working with Custom Actions
 - Using Client-Side User Interface Components
 - Customizing the SharePoint List User Interface
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- **Module 15: Working with Branding and Navigation**
 - Creating and Applying Themes
 - Branding and Designing Publishing Sites
 - Tailoring Content to Platforms and Devices
 - Configuring and Customizing Navigation
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- **4. Course 20489A:**
Exam Code: 070-489
- **Developing Microsoft SharePoint Server 2013 Advanced Solutions**
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- **Course Outline**
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- **Module 1: Creating Robust and Efficient Apps for SharePoint**
 - Apps for SharePoint
 - Communicating with SharePoint from an App
 - Authenticating and Authorizing Apps for SharePoint



- Designing Apps for Performance
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- **Module 2: Developing Managed Metadata Solutions**
 - Managed Metadata
 - Configuring Managed Metadata Term Sets
 - Working with Managed Metadata Fields
- **Module 3: Interacting with the Search Service**
 - Understanding the SharePoint 2013 Search Service
 - Building Search Queries with KQL and FQL
 - Executing Search Queries from Code
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- **Module 4: Customizing the Search Experience**
 - Customizing Query Processing
 - Customizing Search Results
 - Customizing Content Processing
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- **Module 5: Implementing Enterprise Content Management**
 - Working with eDiscovery
 - Working with Content Management
 - Automating Records Management
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- **Module 6: Developing a Publishing Site for Web Content**
 - Programming with the Web Content Publishing API
 - Developing Page Components for Web Content Publishing
- **Module 7: Structuring and Publishing Websites for All Users**
 - Website Structure and Navigation
 - Publishing Content
 - Publishing to Mobile Devices
 - Multi-language sites using Variations
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- **Module 8: Developing Optimized Internet Sites**
 - Optimizing a SharePoint Site for Search Engines
 - Optimizing Performance and Scalability
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- **Module 9: Working with Business Connectivity Services**
 - Business Connectivity Services in SharePoint 2013
 - Creating BDC Models in SharePoint Designer
 - Creating BDC Models in Visual Studio 2012

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- **Module 10: Creating Advanced Business Data Connectivity Models**
 - Configuring BDC Models for Search
 - Developing Custom Connectivity Components
 - Working with External Events and Notifications
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- **Module 11: Working with Business Data**
 - Working with Business Data in Composite Solutions
 - Working with Business Data in Custom Solutions
 - Working with Business Data in Client Applications
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- **Module 12: Managing and Accessing User Profile Data**
 - Overview of User Profile Data in SharePoint 2013
 - Understanding Options for Accessing User Profile Data
 - Managing User Profile Data
 - Managing User Profile Properties
- **Module 13: Customizing the Social Workload**
 - Overview of the Social Workload
 - Developing Social Solutions
 - Working with Feeds
- **Module 14: Monitoring and Troubleshooting Custom SharePoint Solutions**
 - Debugging SharePoint Apps in Visual Studio
 - Diagnosing Faults in Deployed Apps
 - Testing Performance and Scalability
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 - ❖ Modern Lab with Internet Facility.
 - ❖ Students can do Lab till they pass Online Examination without any extra cost.
 - **Batch Timings :**
 - ❖ 7 - 9 am/9 - 11am/11 – 1pm/ 2 – 4pm /4– 6pm / 6 – 8pm / Sat & Sun Only / Sunday Only.
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