



Course 55014-A: Upgrading Your Development Skills to SharePoint 2013

COURSE OVERVIEW



Course Modality

Instructor-led
training



Course Time

5 days



Course Level

Advanced



Course Language

English

This 5-day Instructor Lead course will teach you all the new development changes that were made to SharePoint 2013 including .NET 4.0, Visual Studio 2012, Mobility, Workflow 4.0, OData, OAuth, Claims Authentication, SharePoint AppStore and the new Service Applications (Machine Translation and PowerPoint Automation).

Prerequisites:

Before attending this course, students must have:

- ✓ .NET Object Oriented programming and understanding of basic development tasks in SharePoint.

Intended Audience:

This course is intended for:

This course is intended for anyone interested in getting an introductory look at the new development features of SharePoint 2013.

Job role: Developer

Features: none

Skill Covered:

After completing this course, students will be able to:

- ✓ Describe Object Model changes, Mobility Features, OData, OAuth and Translation Services. Work with Visual Studio 2012 SharePoint Templates and build SharePoint 2013 AppStore Apps.

COURSE CURRICULUM

Module 1:

Overview

- ✓ A simple introduction module.

Lessons

- ✓ n/a

After completing this module, students will be able to:

- ✓ Understand your course, classroom, classmates, facility and instructor.

Module 2:

SharePoint 2013 UI and ASP.NET 4.0

Description: In this module we take a look at the new features introduced in SharePoint 2013 from a UI perspective and explore some of the features of ASP.NET 4.0 that we can now take advantage of.

Lessons

- ✓ ASP.NET 4.0
- ✓ New SharePoint UI Features

Lab : ASPNET 4

Lab : SharePoint 2013 Features

After completing this module, students will be able to:

- ✓ Describe the new UI features of SharePoint 2013 including Follow, Drag and Drop, SkyDrive Pro, Composed Looks, Newsfeeds and OneNote
- ✓ Understand the differences between ASP.NET 2.0 and ASP.NET 4.0
- ✓ Understand the differences between the .NET Runtime and Frameworks
- ✓ Deploy Managed Navigation
- ✓ Work with Cross-Site publishing
- ✓ Work with Image-Renditions
- ✓ Utilize the new Embedded Code Feature

Module 3:

SharePoint 2013 and Visual Studio 2012

Description: In this module we are going to take a look at the new SharePoint 2013 project templates and their many improved features that can be installed with Visual Studio 2012.

Lessons

- ✓ Visual Studio 2012
- ✓ SharePoint 2013 Templates

Lab : Visual Studio 2012

After completing this module, students will be able to:

- ✓ Be familiar with the new Visual Studio 2012 interface
- ✓ What SharePoint project templates exists in Visual Studio 2012
- ✓ How to utilize the deployment capabilities of the templates
- ✓ What new project templates and items are included in SharePoint project templates

Module 4:

Object Model Changes

Description: In this module we are going to explore the various changes made to the SharePoint Object Model APIs, the new Distributed Cache Serviceclasses, eDiscovery and SharePoint Education.

Lessons

- ✓ Working With Distributed Cache Service
- ✓ eDiscovery
- ✓ SharePoint Education
- ✓ Object Model Changes

Lab : Exploring Server Object Model Changes

Lab : Using the New Developer Dashboard

Lab : Programming eDiscovery

Lab : SharePoint Education

After completing this module, students will be able to:

- ✓ Understand the SharePoint Object Model Changes
- ✓ Understand what new assemblies, namespaces and classes are available
- ✓ Understand how to configure and work with Distributed Cache Service
- ✓ Understand the features of SharePoint Education
- ✓ Understand how to work with eDiscovery

Module 5:

SharePoint REST

Description: In this module we are going to take a look at the new Representational State Transfer (REST) features of SharePoint 2013.

Lessons

- ✓ REST
- ✓ Lab : REST

After completing this module, students will be able to:

- ✓ Describe the REST Architecture in SharePoint 2013
- ✓ Describe and use the available REST EndPoints
- ✓ How to build REST-ful queries
- ✓ How to program to REST-ful Services

Module 6:

Client Object Model

Description: In this module we are going to take a look at the new features of the Client Object Models in SharePoint 2013.

Lessons

- ✓ Minimal Download Strategy
- ✓ Client Object Model

Lab : Client Object Model

Lab : JavaScript Object Model

Lab : Minimal Download Strategy (MDS)

After completing this module, students will be able to:

- ✓ How to use the New Client Object Model Features
- ✓ How to use the New JavaScript Object Model Features
- ✓ How to use the new CSOM endpoints (UserProfile, Taxonomy, Publishing)
- ✓ How to implement Remote Event Receivers

Module 7:

Mobility

Description: In this module we are going to explore the new Mobility features provided in SharePoint 2013. You will also see how to utilize the new Push notifications as well as the Location and Map APIs.

Lessons

- ✓ SharePoint 2013 Mobility Features

Lab : Mobility Programming on SharePoint 2013

Lab : Location and Maps APIs

Lab : Mobility Push Notifications

After completing this module, students will be able to:

- ✓ Understand SharePoint's Mobility Support
- ✓ How to build your own Mobility Applications with Visual Studio 2012
- ✓ How to work with Push Notifications
- ✓ How to work with Location and Maps

Module 8:

Workflow 4.0

Description: In this module we are going to take a look at implementing workflows with the new Visual Studio 2012 templates and with SharePoint Designer 2013. We will also explore the new architecture of cloud based Azure Workflows.

Lessons

- ✓ Workflows in SharePoint 2013

Lab : Creating Simple 2013 Workflows

Lab : Creating Visio-based Workflows

Lab : Creating Azure Workflows

After completing this module, students will be able to:

- ✓ How to utilize the new Windows Workflow 4.0 in SharePoint 2013
- ✓ How to build Windows Azure based Workflows
- ✓ Use the new Visual Studio 2012 Workflow templates

Module 9:

SharePoint Apps

Description: In this module we are going to explore how to develop, publish and deploy SharePoint private and public Applications.

Lessons

- ✓ SharePoint 2013 Private Apps
- ✓ SharePoint 2013 Public Apps

Lab : Creating Private SharePoint Apps

Lab : Creating Public SharePoint AppStore Apps

Lab : Creating Azure SharePoint Apps

After completing this module, students will be able to:

- ✓ How to deploy SharePoint Apps in various ways
- ✓ How to create anAppCatalog
- ✓ How to build and publish a SharePoint AppStore Application
- ✓ How to download and install a SharePoint AppStore Application

Module 10:

OAuth, S2S and Claims

Description: In this module we are going to take a look at the new support for OAuth 2.0 and look at new features of claims based authentication support in SharePoint 2013.

Lessons

- ✓ Working with Claims Authentication
- ✓ Working with OAuth 2.0 and S2S

Lab : Creating Server-To-Server(S2S) Applications

Lab : Creating OAuth Applications

Lab : Claims Based Auth

After completing this module, students will be able to:

- ✓ How to work with OAuth 2.0 in SharePoint 2013
- ✓ How to work with Claims Based Authentication
- ✓ How to build a claims web part
- ✓ How to integrate ADFS 2.0 with SharePoint 2013

Module 11:

Programming 2013 Service Applications

Description: In this module we are going to take a look at the new Machine Translation and PowerPoint Automation Services then review the not-widely used, but should have been, Word Automation Services.

Lessons

- ✓ Working with PowerPoint Automation Services
- ✓ Working with Word Automation Services
- ✓ Working with Machine Translation Services

Lab : Programming Translation Services

Lab : Programming PowerPoint Automation

Lab : Programming Word Automation

After completing this module, students will be able to:

- ✓ Develop Machine Translation applications
- ✓ Develop PowerPoint Automation Applications
- ✓ Develop Word Automation Applications
- ✓ How to use Office XML SDK 2.0