



Programming Microsoft Office SharePoint Server

Abstract:

This 5 day deep-dive will guide individuals through the process of architecting and developing SharePoint applications and customizations with a MOSS focus. This course focuses on Microsoft Exam 70-542.

Target Audience/Who should attend:

Anyone looking to develop SharePoint customizations at a MOSS core level.

What you will learn:

This course focuses on MOSS fundamentals and features and how to extend them. You will see how to customize the document policy feature and add your own actions. You will gain guidance on how to work programmatically with the Records Center, Content Management, Search Center, and InfoPath Services. You'll learn to extend the document converter functionality with your own converters, as well as how to integrate with the User Profile and Audience APIs

Pre-requisites:

Attendees should have professional development experience with Visual Studio 2005, the .NET 2.0 Framework and ASP.NET 2.0. Attendees should also be familiar with Microsoft Office products such as Word, Excel and InfoPath. You should have also taken the Advanced SharePoint Development course (MS50064).

Delivery Method:

Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

Modules:

Overview (82 minutes)

Lab: SiteDefinitions (30 minutes)

- Create One of Each WSS/MOSS Site Definition

Lab: SharedServices (15 minutes)

- Create a Shared Services Provider

Document Policies (171 minutes)

Lesson: Information Management Policy

- Information Management Policy Overview
- SharePoint Information Management Policy
- SharePoint Policy Architecture
- Built In Policy Features
- Office Integration
- Policy Reporting



Course Outline

- Custom Policy Features
- Custom Policy Resources

Lab: DocumentPolicies (30 minutes)

- Create a basic policy (Manual)

Lab: DocumentPolicies (30 minutes)

- Create a custom Policy Feature
- Install a custom Policy
- Create a basic policy (Programmatically)

Lab: ExpirationActions (30 minutes)

- Create a custom Expiration Action

Lab: BarCodeGenerator (30 minutes)

- Create a Bar Code Generator

Records Management (156 minutes)

Lesson: Records Center

- Records and Records Management
- Record Center Overview
- Email Integration
- Record Holds
- Information Rights Management
- Information Management Policy
- Records Auditing
- Programming API
- Extending Records Center
- Record Center Planning
- Best Practices

Lesson: Document Center

- Document Center Overview

Lab: RecordsManagement (30 minutes)

- Use the Records Center

Lab: RecordsManagement (30 minutes)

- Create a Record Routing entry (Programmatically)
- Query Record Routing
- Submit a Document to Record Center
- Create a Hold (Programmatically)
- Query Holds



Course Outline

Lab: CustomRouter (30 minutes)

- Create a Custom Router

Content Management (314 minutes)

Lesson: Content Management

- Types Of Content Management
- Versioning
- Content Approval
- Publishing Infrastructure Features
- Page layouts
- Page Toolbar

Lesson: Variations

- Variations

Lesson: Content Deployment

- Content Deployment Overview
- Content Deployment Features
- Content Deployment Security
- Content Dependencies
- Content Deployment API
- Quick Deploy

Lab: ContentManagement (30 minutes)

- Create a new Page Layout
- Create a new Page using a Page Layout

Lab: ExtendPageToolbar (30 minutes)

- Extend the Page Toolbar

Lab: Variations (30 minutes)

- Create Variations
- Use Variations
- Variation Label Menu
- Custom Variation Root Landing page

Lab: ContentDeployment (60 minutes)

- Setup Content Deployment Path & Jobs
- Quick Deployment
- Debug Content Deployment

Lab: ContentDeploymentAPI (60 minutes)

- Setup Content Deployment Path & Jobs (Programmatically)



Course Outline

- Quick Deployment (Programmatically)

InfoPath Forms Services (191 minutes)

Lesson: InfoPath 2007

- InfoPath 2007
- New features
- Forms Publishing
- Importing Forms

Lesson: InfoPath Forms Services

- IFS Architecture
- Runtime Architecture
- Form Templates
- Uploading Forms
- Unsupported Features
- Upgrading/Quiescing Forms
- IFS Settings
- Forms Integration with ASP.NET

Lesson: Best Practices

- Best Practices

Lab: InfoPathForms (30 minutes)

- Create an InfoPath Form (Blank template)
- Create an InfoPath Form(Database)
- Create an InfoPath Form (Xml)
- Create an InfoPath Form (Web Service)
- Create an InfoPath Form (Connection Library)
- Convert Office Word and Excel to InfoPath
- InfoPath Data Connections

Lab: InfoPathFormsServices (30 minutes)

- Review MOSS Forms
- Publish/Upload a Form to Forms Library
- Verify/Upload/Activate a Form with IFS

Lab: XmlFormView (45 minutes)

- Integrate IFS with ASP.NET Web Applications
- Coding the XmlFormView Control
- Submitting a Form from ASP.NET



Course Outline

Excel Services (238 minutes)

Lesson: Excel Services

- Excel Services Overview
- Excel Services Trusted Locations
- Shared Data Connections
- User Defined Functions
- Excel Services Is Threatening
- Excel Services Web Parts
- Excel Services Object Model/Web Service
- Excel Services Performance

Lab: ExcelServices (60 minutes)

- Learn to use Excel Services
- Create/Publish to Excel Services
- Configure Excel Services
- Shared Data Connections
- Single Sign On Data Connections
- Customize XLViewer.aspx

Lab: ExcelWebServices (30 minutes)

- Program to several of the new 2007 MOSS Web Service Interfaces
- Execute a Spreadsheet
- Excel Snapshots

Lab: UserDefinedFunctions (30 minutes)

- Create A User Defined Function (UDF)
- Use a UDF

Lab: ESOBJECTMODEL (30 minutes)

- Learn to use Excel Services Object Model

Lab: ExcelCompanion (30 minutes)

- Ewa Companion

Business Data Catalog (240 minutes)

Lesson: Business Data Catalog

- Overview
- Application Definition Files
- Business Data Catalog Web Parts
- Business Data Catalog Indexing
- Business Data Catalog Authentication
- Business Data Catalog With Single SignOn
- Business Data Catalog Permissions



Course Outline

Lab: BDC (30 minutes)

- Import an application definition file
- Utilize BDC web parts
- Utilize Filter web parts

Lab: BDCApplicationDefinitionFiles (30 minutes)

- Review BDC Schema
- Create a BDC File (manually)
- Create a BDC File (Code Gen)

Lab: BDCPermissions (30 minutes)

- DataSource Permission Errors
- Application Permission Errors
- Entity Permission Errors

Lab: BDCAuthentication (45 minutes)

- Modify BCD to Use Database Credentials
- Modify BDC to Use Single Sign On
- Custom Single Sign On Solution

Lab: BDCWebServices (30 minutes)

- BDC Web Services API

Lab: BDCProfiles (15 minutes)

- Search and BDC Integration
- BDC Entity Profile

Business Intelligence (123 minutes)

Lesson: Business Intelligence

- Report Center
- KPIs
- Dashboards
- Filter Web Parts
- Reporting Services Integration

Lab: ReportCenter (30 minutes)

- Use the Report Center

Lab: FilterWebParts (45 minutes)

- Use each of the Filter Web Parts



Course Outline

Document Converters (118 minutes)

Lesson: Document Converters

- Document Converters
- Architecture
- Configuration
- Conversion Priority
- Custom Document Converters
- OpenXml

Lab: BuiltInDocumentConvertors (30 minutes)

- Use Built In Document Converters

Lab: CustomDocumentConvertors (45 minutes)

- Create/Deploy a Custom Converter

User Profiles (154 minutes)

Lesson: User Profile Overview

- User Profiles
- My Site

Lesson: User Profile Settings

- User Profile Administration
- Profile Properties
- Importing Profile Data
- Data Connections
- Editing Profile Data
- Security / Policies

Lesson: User Profile API

- User Profile API
- UserProfileManager class
- UserProfile class
- Relationship methods
- Updating User Profiles
- Get Profile Changes
- Add a Profile Property
- Colleague
- Personalization and Quick Links

Lab: UserProfiles (30 minutes)

- Add SharePoint Profile Property
- Iterate User Profiles
- Get a User Profile



Course Outline

- Profile Relationships
- Create a User Profile
- Update a User Profile
- Get Profile Changes
- Delete a User Profile
- Get Profile properties
- Add a Profile Property
- Colleagues
- Personalization & Quick Links

Lab: UserProfilesWS (30 minutes)

- Add SharePoint Profile Property
- Iterate User Profiles
- Get a User Profile

Lab: UserProfilesBDC (30 minutes)

- Connect BDC to User Profile Property

Audiences (65 minutes)

Lesson: Audiences

- Audience Overview
- Compiling
- Using Audiences

Lab: Audiences (30 minutes)

- Create Audiences via Central Administration
- Programmatically work with Audiences
- Create Audience
- Compile Audiences
- Get Audience Members

Search (335 minutes)

Lesson: Search Overview

- Search Overview
- Microsoft Search Products
- Content Sources
- Crawl Process
- Crawl Schedules
- Crawl Schedule Best Practices
- Crawling Content
- Search Scopes
- File Types
- Default Access Account
- Query Crawl Logs



Course Outline

Lesson: Performing Searches

- Keyword Search
- Full Text Search
- URL Query
- SPQuery
- CAML Query
- Search Tools
- Search Reporting/Analysis

Lesson: Programming Search

- Query Object Model
- Web Service

Lesson: Tuning Search

- Thesaurus
- Noise Words
- Relevance
- Improving relevance
- Static/Dynamic Ranking Algorithms
- Result Removal
- Best Bets
- Search Web Parts
- Search Results Customization

Lesson: Extending Search

- Search Terms
- Protocol Handlers
- IFilters
- IStemmers
- IWordBreakers

Lab: Search (30 minutes)

- Create Content Source
- Create Crawl Schedules
- Crawl All Scopes
- Create Crawl Rule
- Create Search Scopes
- Add a File Type
- Set Default Access Account
- Query Crawl Logs

Lab: SearchQueries (30 minutes)

- Keyword Search
- Full Text Query Search
- PageSize and Sorting
- URL Query



Course Outline

- SPQuery Search
- CAML Query

Lab: SearchWS (30 minutes)

- Use the Search Web Service
- Use Query Method with STRING
- Use QueryEx Method with STRING
- Use QueryEx Method with MSSQLFT

Lab: TuningSearch (45 minutes)

- Relevance
- Keyword & Best Bets
- Thesaurus
- Noise Words

Lab: CustomizingSearch (45 minutes)

- Customize Search Results