

## SharePoint 2007 Programming Part II

Course Code: MS50146 Five days; Instructor-Led

### Prerequisites

Before attending this course, students should have professional development experience with:

- Microsoft Visual Studio 2005
- the Microsoft .NET Framework 2.0
- Microsoft ASP.NET 2.0.

Attendees should also be familiar with Microsoft Office products such as:

- Microsoft Office Word
- Microsoft Office Excel
- InfoPath

You should have also taken the Advanced SharePoint Programming Part I course.

### Course Outline

#### Module 1: Overview

This module introduces the student to the objectives of the course.

#### Lessons

- This module contains labs only.

#### Lab : Site Definitions

- Create One of Each WSS/MOSS Site Definition

#### Lab : Shared Services

- Create a Share Services Provider

#### Module 2: Document Policies

This module explains how to create and use the object model to create basic information policies and how to create a custom policy resource for the Bar Code policy feature.

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## Lessons

- Information Management Policy

### Lab : Information Management Policies

- Create a Basic Policy (Manually)

### Lab : Information Management Policies

- Create a Custom Policy

### Lab : Expiration Actions

- Create a Custom Expiration Action

### Lab : Custom Policy Resources

- Create a Bar Code Generator

After completing this module, students will be able to:

- Create a basic and custom policy, manually and programmatically.
- Create a custom expiration.
- Create a bar code generator.

## Module 3: Records Management

This module reviews configuring and sending documents to the document center, explores the Hold center, and shows how to create and query Record Routing entries.

## Lessons

- Document Center
- Records Center

### Lab : Records Management

- Use the Records Center

## Lab : Records Management

- Record Routing
- Submit a Document
- Create a Hold

## Lab : Custom Router

- Create a Custom Router

After completing this module, students will be able to:

- Create a Record Routing entry programmatically.
- Query record routing.
- Submit a document to the Record Center.
- Create a Hold programmatically.
- Query Holds.
- Create a custom router.

## Module 4: Content Management

This module explains how to use the browser to implement a content deployment strategy, how to add an action, how to create a variation, how to create content and set up a Path and Job, and how to create Web applications and site collections.

### Lessons

- Variations
- Content Deployment
- Content Management

## Lab : Content Management

- Page Layouts

## Lab : Extend Page Toolbar

- Create the actions

## Lab : Variations

- Create a variation
- Variation Label Menu
- Variation Root Landing Page

## Lab : Content Deployment Features

- Create a Content Deployment Path and Job

## Lab : Content Deployment API

- Create Content Deployment Application
- Test Content Deployment

After completing this module, students will be able to:

- Create a new page layout.
- Extend the Page toolbar.
- Create and use variations.
- Work with the Variation Label menu.
- Customize the variation root landing page.
- Set up content deployment path and jobs.
- Debug content deployment.

## Module 5: InfoPath Forms Services

This module demonstrates how to create an InfoPath Form from scratch, reviews default forms loaded by MOSS, and shows how to integrate a form view into your ASP.NET Web forms.

### Lessons

- InfoPath Forms Services
- Best Practices
- InfoPath 2007

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## Lab : InfoPath Forms

- 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 Word and Excel to InfoPath

## Lab : InfoPath Services

- Review MOSS InfoPath Forms
- Publish/Upload a Form to Forms Library
- Upload Form to InfoPath Forms Services

## Lab : InfoPath Forms Services

- Integrate IFS with ASP .NET 2.0
- Coding the XmlFormView Control
- Submitting a Form from ASP .NET

## After completing this module, students will be able to:

- Create a variety of InfoPath forms.
- Review MOSS forms.
- Publish a form to Forms Library.
- Use IFS to verify, upload, and/or activate a form.
- Submit a form from ASP.NET.
- Code the XmlFormView control.

## Module 6: Excel Services

This module explores how to create an Excel file and publish it to a document library, how to use the Excel Services Web service and create an Excel Snapshot, how to create a UDF, and how to install the EWA Companion.

## Lessons

- Excel Services

### Lab : Excel Services

- Create and Publish an Excel File
- Shared Data Connections
- Single Sign On Connections
- Customize XLViewer.aspx

### Lab : Excel Services Web Services

- Open a Visual Studio .NET Project
- Use the Excel Services Web Service
- Excel Snapshots

### Lab : User Defined Functions

- Create a User Defined Function

### Lab : Excel Services

- Excel Services Object Model

### Lab : EW Companion Lab

- Install EWA Companion

After completing this module, students will be able to:

- Use and configure Excel Services.
- Understand shared and single sign on data connections.
- Customize XLViewer.aspx.
- User Excel Web Services to program to the new 2007 MOSS Web Service interface.
- Execute a spreadsheet.
- Create and use a User Defined Function (UDF).
- Use Excel Services Object Model.

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## Module 7: Business Data Catalog

This module shows how to define and modify an application definition for SharePoint, how to create a BDC file, how to use the BDC Web Service, and how to set up BDC Indexing.

### Lessons

- Business Data Catalog

### Lab : Business Data Catalog

- Review/Import an Application Definition File
- Test Your Business Data

### Lab : Business Data Catalog

- Review the BDC Schema Files
- Create a BDC App Def File (Manually)
- Create a BDC App Def File (Code Gen)

### Lab : Business Data Catalog Permissions

- Import an Application Definition File (Optional)
- BDC Permissions

### Lab : BDC Single Sign On

- Modify the Application Definition File (Use DB Credentials)
- Modify the Application Definition File (Use SSO Credentials)
- Custom Single Sign On Solution (Optional)

### Lab : Web Services

- Open Visual Studio .NET Project
- Use the Business Data Catalog Web Service

### Lab : Business Data Catalog Pages

- Setup BDC Indexing

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After completing this module, students will be able to:

- Import an application definition file.
- Use BDC and Filter Web parts.
- Create a BDC file.
- Understand DataSource, entity, and application permission errors.
- Modify BCD to use database credentials and single sign on.
- Customize single sign of solution.

## **Module 8: Business Intelligence**

This module explores the Report Center and explains how to use Filter Web parts.

### **Lessons**

- Business Intelligence

### **Lab : MOSS Site Definitions**

- Use the Report Center

### **Lab : Filter Web Parts**

- Create a New Web Part Project

After completing this module, students will be able to:

- Use the Report Center.
- Use each of the Filter Web parts.

## **Module 9: Document Converters**

This module explains creating and using document converters.

### **Lessons**

- Document Converters

### **Lab : Custom Document Converter (Optional)**

- Create the Converter

After completing this module, students will be able to:

- Use built-in document converters.
- Create and deploy custom converters.

## **Module 10: User Profiles**

This module explores User profile settings, demonstrates how to find details about the User Profile Web Service API, and shows how to import BDC data into SharePoint Profile.

### **Lessons**

- User Profile API
- User Profile Overview

### **Lab : User Profiles**

- Review UserProfile namespace
- Review User Profile Settings
- Use the User Profile API

### **Lab : User Profiles**

- Examine User Profile Web Service

### **Lab : User Profiles and BDC**

- Connect BDC to SharePoint Profile

After completing this module, students will be able to:

- Add a SharePoint profile property.
- Create, update, and delete a user profile.
- Connect BDC to a user profile property.

## **Module 11: Audiences**

This module explores how to create audience via the Central Administration console, and how to create audience programmatically.

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## Lessons

- Audiences

### Lab : Audiences

- Create Audience via Central Administration
- Create Audience Programmatically

After completing this module, students will be able to:

- Create audiences via central administration.
- Programmatically work with Audiences.
- Create and compile Audiences.
- Get Audience members.

## Module 12: Search

This module explores how to use the Search API, the Search Query API, and the Search Web Service API; how to use Search via the browser and through SPQuery; how to modify Relevance settings and to create Best Bets; how to update the Thesaurus; and how to get a typical search result .xml.

## Lessons

- Performing Searches
- Programming Search
- Search Overview
- Tuning Search
- Extending Search

### Lab : Extending Search

- Use the Search API

### Lab : Search Query

- Search Queries
- URL Search
- SPQuery

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## Lab : Search Web Services

- Use the Search Web Service

## Lab : Search

- Relevance
- Keywords and Best Bets
- Thesaurus
- Noise Words

## Lab : Customizing Search Results

- Get Search Xml
- Update the Search XSLT

After completing this module, students will be able to:

- Create a content source.
- Create crawl schedules.
- Crawl all scopes.
- Create a crawl rule.
- Create search scopes.
- Conduct a keyword, full text query, URL, SPQuery, and CAML query.
- Use the Search Web service.
- Tune the search with keywords, noise words, and the thesaurus.
- Customize Search results.