

SharePoint 2010 Boot Camp

About this Course/Summary

*This outline is subject to change.

Microsoft SharePoint 2010 has arrived! The latest release of SharePoint has some significant business collaboration enhancements we believe you will want to know about! SharePoint 2010's further improved integration capabilities enable companies to rapidly respond to changing business needs by making data driven decisions and by deploying customized solutions both quickly and securely. New integration enhancements including Business Intelligence, improved Document Management and Interconnectivity from within SharePoint and surrounding systems makes it possible for businesses to improve efficiencies and IT productivity across their environment, thereby reducing costs.

Overview

This intense 5-day fast paced workshop will give both Administrators and Developers effective skills transfer for the new products and technologies delivered with the next version of SharePoint 2010. Migration and the impact of migrating from WSS V3.0/MOSS 2007 is also addressed.

You will have the opportunity for 'hands-on' experience to Develop, Customize and Integrate solutions using the next release of SharePoint technology.

Target Audience

IT Professional, Technical Consultants, Architects and Developers.

At Course Completion/Skills Gained

After completing this course, students will be able to:

1. Customising and exploring the integration between Office Client Tools, Custom Applications and SharePoint 2010 based solutions.
2. Delivering Workflow based solutions right down to the Client Desktop and how you can benefit from SharePoint hosted Windows Workflow.
3. Customising and Developing SharePoint 2010 based solutions, including creating cross site-collection content types and metadata, event handlers, custom applications and custom page layouts and creating CMS based SharePoint sites.

Prerequisites

Before attending this workshop, students should be familiar with Windows SharePoint Services 3.0 and Office SharePoint Server 2007.

Development experience using VB.Net or C# would be an advantage, however being an experienced developer is not a prerequisite, as to the non developer these modules will show you what can be customized through development.

Course Outline

Module 0: Feature run through of SharePoint 2010

- Different SharePoint versions compared
- A Developer's perspective on this new Platform
- What SharePoint means to the IT Pro
- Key Business benefits gained by SharePoint 2010
- Notes from the field: SharePoint 2010 based solutions to real business problems.

Module 1: Developer Roadmap

- Migrating developer technologies to SharePoint 2010.
- The evolution of the Microsoft Office platform

- New SharePoint Architecture Developers can take advantage of – office client, ribbons, server, + wcf services.
- SharePoint 2010 – the new web based collaborative platform for Developers.
- Examining the Developer Debug information Pane.

Module 2: SharePoint 2010 Architecture

- Discover the new and improved robust SharePoint architecture.
- Migrating your old SharePoint 2007/WSS V3 Farm to SharePoint 2010.
- Installing, Configuring and Setting up – main focal points.
- Recovering your SharePoint 2010 farm from failure – actually doing this in the lab!
- 10 point checklist in caring for your SharePoint 2010 farm.
- Performance considerations
- Techniques to monitor your SharePoint environment.
- Key Powershell SharePoint Commands Covered.
- Customising SharePoint Administration for your needs– including building your own powershell custom commands.

Module 3: SharePoint 2010 Storage

- Examine the storage mechanism for SharePoint 2010.
- Changes and improvements in SharePoint 2010.
- Content Storage and explore the SharePoint storage mechanism for additional areas such as workflows, persistence.
- UserProfile and MySite storage examined.
- Index columns and improve performance within lists and lookups
- Creating custom list columns.
- Keeping in sync from the Client with (Groove)
- SharePoint Workspace

Module 4: Classification of Content - Building and Developing Content Types - turn your good SharePoint site to a great one.

- Mapping Business Classifications into Content Types.
- SharePoint 2010 – the Business Information Platform.
- Defining metadata driven global navigation structures.
- Content Types examined – benefits and features.
- Effective storage classification
- Retrieving, aggregating and rolling up content based on smart searching.
- Building, importing and exporting vocabulary lists used to drive navigation, search and SharePoint metadata

“Everyone can dig a hole to store content, finding that content and getting it out again is the key”

Module 5: Developing, Customising and Deploying SharePoint Applications

- Development strategies and areas examined – planning.
- Customising SharePoint UI – the easy way.
- Extending the Ribbon
- Bringing Silverlight and AJAX to the party.
- Building and deploying custom Master Pages and StyleSheets.
- Cost effective customizations
- Techniques to migrate existing Web Applications to the new SharePoint 2010 Application Framework.

Module 6: Core WSS 3.0 Development

- What’s New
- Discover the SharePoint 2010 core APIs – different ways to access and deployment requirements.
Working with core object such as lists, sites, site collections, event handlers and SharePoint farms.

- Creating Event Handlers
- Examining the SharePoint 2010 WCF Service APIs.
- LINQ for SharePoint and using SPMetal
- Working with Content – querying, update and throttling techniques within SharePoint 2010 – it's easier than before.
- Techniques to view SharePoint data examined.
Integrating with SharePoint from existing desktop applications.

Module 7: Building InfoPath 2010 and Word 2010 Server Side Solutions

- What's New
- Building Real World InfoPath based solutions.
Create InfoPath 2010 forms from the ground up.
Host InfoPath forms in WinForms, ASP.NET and mobile platforms
- Use the new SharePoint InfoPath Forms Server to convert InfoPath forms to ASP.NET pages viewable by all
- Using Word 2010 Server Side – creating PDFs automatically from uploaded documents.

Module 8: Windows Workflow Foundation Integration

What's New

- SharePoint hosted Windows Workflow Architecture.
Quick Visio view of defining Workflows for the Business.
- Implementing Reusable Workflows using SharePoint Designer
- Implementing Workflows using Visual Studio 2010 based on WF 3.5 SP1, including WCF callable workflows hosted in SharePoint.
- Creating, Deploying and working with custom workflows.

Module 9: Creating Portal Applications and using Role Based Authentication

- Examine Portal Specific aspects such as: Application Services, effective Search configurations, and index strategies.
- Implementing performance and custom property additions
- Determine the appropriate Portal wide navigation topology.
- Integrating with Active Directory and other user stores
Effective audiences

Module 10: SharePoint 2010 Integration with 3rd Party Systems

- Enrich your SharePoint 2010 portals with information streams from remote systems.
Examining external lists
- Creating Business Connectivity Services (BCS) plugins and using the BizTalk Adapter Pack 2.0 to make light work of 3rd Party systems e.g. SAP.
- Leveraging your integration efforts from your Office Applications.

Module 11: Web Content Management

- What's New
- Implementing Internet and Intranet facing Portals.
- Creating Company publishing workflows.
- Extending the publishing environment.
- Optimizing SharePoint for public viewing
- Caching considerations.

Module 12: Examining the SharePoint 2010 BI Platform

- What's New
- Performance Point examined.
- Utilizing Excel Services and Reporting
- Creating Web Based Excel Services
- Examining the Report Centre
- Creating and exposing KPIs

- Add SQL Reporting Services Reports

Module 13: Extending SharePoint 2010 recapped.

- Admin extensions summarized
- SharePoint customizations summarized – different areas, pros + cons.
- Developer extensions and best practices summarized.
Where to get more!!! And enjoy your new journey.