SharePoint 2010: Business Processes

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Course description: Microsoft Office SharePoint 2010 Server provides a wealth of services that you can use, customize, and extend to augment and streamline your business processes. This course covers these features and teaches you how to build on them to create business solutions. The beginning of the course orients you with the built-in capabilities and teaches how to customize them using SharePoint Designer. From there you will learn how to create custom forms using both ASP.NET and InfoPath. The last half of the course teaches how to build custom workflows in SharePoint using Visual Studio and covers sequential workflows, state machines, tasks, and custom workflow forms using both ASP.NET and InfoPath.

Course outline:

SharePoint BPA
- Introduction
- Business Process Automation
- Using SharePoint for BPA
- Using SharePoint Lists
- SharePoint Task List Templates
- Demo: SharePoint Task List
- Creating and Using Alerts
- Active Alerts in SharePoint
- Demo: Active Alerts
- Passive Alerts in SharePoint
- Demo: Passive Alerts
- Summary

Out of the Box Workflows
- Introduction
- Using Out-of-the-Box Workflows
- SharePoint Server Workflows
- Approval Workflow
- Three-State Workflow
- Other Workflows
- Modifying Running Workflows
- Workflow History
- Demo: Workflows
- Summary

SharePoint Designer Workflows
- Introduction
- SharePoint Workflow Features
- SharePoint Designer Workflows
- Workflow Events
- Workflow Actions
- Workflow Conditions
- Workflow Steps
- Demo: Designer Workflows
- Summary

Variables and Forms
- Introduction
- Workflow Variables and Forms
- Workflow Variables
- Demo: Workflow Variables
- Workflow Forms
- Integration with Visio
- Reusable Workflows
- Site Workflows
- Demo: Integration with Visio
- Summary

SharePoint Lists
- Introduction
- Standard List Forms
- Web Parts for Views and Forms
- Demo: Web Parts - Views/Forms
- Modifying Default List Forms
- Demo: Modifying Default Forms
- Summary

Custom Applications
- Introduction
- Creating Custom Applications
- Data Form Web Part
- Demo: Data Form Web Part
- Enhancing Data Views with ASP
- Demo: Enhancing Data Views
- Summary

InfoPath Basics
- Introduction
- InfoPath Basics
- Anatomy of an InfoPath Form
- Features of InfoPath
- Integration Features
- Getting Started with InfoPath
- InfoPath Design Tools
- Demo: InfoPath Basics
- Data Connections
- Data Connection Libraries
- Demo: Data Connections
- Summary

Form Publishing
- Introduction
- Form Publishing Options
- Demo: Form Publishing Options
- InfoPath Forms Services
- Demo: InfoPath Forms Services
- Summary

Workflow Fundamentals
- Introduction
- SharePoint: Workflow Platform
- Common Uses and Capabilities
- Items Workflows Can Support
- SharePoint/Workflow Foundation
- Two Types of Workflows
- Visual Studio Workflow Designer
- Demo: Workflow Fundamentals
- Summary

Workflows In Code
- Introduction
- Creating Workflow Associations
- Workflow Association Objects
- Demo: Workflow Associations
- SharePoint Client Object Model
- Demo: SharePoint Client Object
- Starting a Workflow Instance
- Start a Workflow in Code
- Demo: Start a Workflow in Code
- Collecting Data in Workflow
- Using Association & Init Data
- Demo: Workflow Data
- Summary

Sequential Workflows
- Introduction
- SharePoint Workflows
- Code-based Workflow Elements
- Binding Properties: Activities
- Flow of Control
- Rules and Conditions
- Sequential Workflows
- Demo: Sequential Workflows
- Summary

State Machine Workflows
- Introduction
- State Machine Workflows
- Demo: State Machine Workflows
- Demo: Final State
- Demo: Set SetState Activities
- Demo: Deploy Workflow
- Summary

Faults/Activities Debugging
- Introduction

(Continued on page 2)

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- Faults and Canceled Workflows
- Using the FaultHandler Activity
- Handling Workflow Exceptions
- Handling Canceled Workflows
- Demo: Faults/Canceled Workflow
- SharePoint Workflow Activities
- Demo: Workflow Activities
- Debugging Your Workflow
- Demo: Debugging Your Workflow
- Summary

Task Basics
- Introduction
- Task Basics
- Typical Flow
- Task Activities
- Connecting Related Tasks
- Correlation Token
- What Correlation Token to Use?
- Setting OwnerActivityName
- Demo: Tasks
- Summary

State Machine Tasks
- Introduction
- Tasks: State Machine Workflows
- Demo: State Machine Workflows
- Demo: Creating a Task
- Demo: Workflow Branching
- Summary

Custom Task Types
- Introduction
- Using Custom Task Types
- Content Type
- WorkflowTask Content Type
- Setting the Default Task Type
- CreateTaskWithContentType
- Demo: Custom Task Types
- Demo: Unhide Workflow Task
- Demo: Create Workflow
- Summary

Association Forms
- Introduction
- Workflow Forms
- InfoPath and ASP.Net
- XML Serialization - InfoPath
- Association Forms
- Passing Data
- Configure an Association Form
- Demo: Association Forms
- Demo: XSD executable
- Demo: Reading Association Data
- Demo: Deploying the Form
- Demo: Testing the Form
- Summary

Initiation Forms
- Introduction
- Initiation Forms
- Configure an Initiation Form
- Demo: Initiation Forms
- Demo: Create Initiation Form
- Summary

Task Forms
- Introduction
- Task Forms
- Configure a Task Form
- Demo: Configure a Task Form
- Demo: Deploying the Form
- Demo: Create an XML Document
- Summary