



**BLACK NINJA SOFTWARE**

302 - 145 West 15th Street  
North Vancouver, BC V7M 1R9

T 778.340.1227  
contact@blackninja.com

[blackninja.com](http://blackninja.com)

# Professional SharePoint 2010 Development Course Outline

## Overview

The skills and knowledge acquired in this Professional SharePoint 2010 Development course will equip experienced SharePoint 2007 students with advanced and in depth SharePoint 2010 development knowledge and techniques.

## Target Audience

Professional SharePoint 2010 Development is designed for users who are experienced with SharePoint 2007 development and would like to learn what the new product offerings are for the 2010 version. This course dives deep into the many areas of SharePoint 2010 development and will teach students how to create robust SharePoint projects and solutions using the new tools and techniques available in Visual Studio 2010.

## Pre-Requisites

This course is aimed at delegates that have experience in SharePoint 2007 development, the .NET Framework and ASP.NET as well as familiarity with Microsoft Office products such as Microsoft Word. Experience with the Visual Studio 2008 development environment is a plus.

## Course Format

Black Ninja courses are small by design. This allows for the instructor and students to interact more closely, and gives students opportunity to clarify concepts or raise questions as the training progresses.

## Modules

### **1 - Introduction to SharePoint 2010**

- What's New in the SharePoint Platform and Tools
- What's New in Collaboration/Social Computing
- What's New in Search Server
- What's New in ECM
- SharePoint Central Administration

### **2 - Getting Started with SharePoint 2010 Development**

- Core Developer Features for 2010
- Your Development Environment

### **3 - SharePoint 2010 Development Tools**

- OOB Developer Experience
- SharePoint Designer 2010
- Developing SharePoint Applications Using Visual Studio 2010
  - Project and Item Templates
  - Visual Designs and Explorers
  - F5 Deployment, Debugging & Testing
- Developer Dashboard
- Feature and Solution Framework
- Packaging and Deployment
- Upgrading Code from 2007

### **4 - IT Pro Enhancements for the Developer**

- Performance Improvements
- High Availability Improvements
- Security Improvements
- Management Improvements

### **5 - Common Developer Tasks in SharePoint 2010**

- Customizing and Extending the SharePoint Ribbon
- Creating Site Pages

- Page Templates and Customization
- Master Pages, CSS & Branding
- Creating Fields, Site Columns & Content Types
- Creating and Working With List Definitions
- Creating Lists and Event Handlers
- Site Definitions

## **6 - Building and Deploying SharePoint Web Parts**

- Understanding Web Parts
- Web Part Architecture
- Custom Web Parts and Visual Web Parts
- Custom Web Part Properties

## **7 - Programming Against SharePoint 2010 Lists**

- Overview of SharePoint Lists
- Programmatically Accessing Lists
  - Server-Side Object Model
  - Client Object Models
  - SharePoint Web Services
  - REST-Based Services and List Development
- Creating Event Receivers for a SharePoint List

## **8 - Access Data in Lists**

- LINQ for SharePoint 2010
- Reading and Writing Data in SharePoint Lists with LINQ
- WCF Data Services

## **9 - Workflows**

- New Workflow Development Cycle
- Creating Reusable Workflow Templates with SharePoint Designer 2010
- Building Workflows with Visual Studio 2010
- Incorporating ASP.NET and InfoPath Forms to Workflows

## **10 - Creating Sandboxed Solutions**

- Solution Architecture

- Sandbox Solution Gallery
- Creating and Testing a Sandboxed Solutions
- Limitations with Sandboxed Solutions

#### **11 - Business Connectivity Services**

- Introduction to Business Connectivity Services
- Understanding BCS Architecture
- BCS Authentication Scenarios
- Creating External Content Types
- Creating External Lists
- Using ECTs in Office 2010 Clients
- Creating Custom BCS Solutions

#### **12 - Web Content Management**

- The Content Lifecycle in Web Content Management
- Foundations of Web Content Management
- Customizing Sites with the Publishing Portal Template
- Understanding the Publishing Content Approval Process

#### **13 - Enterprise Content Management**

- Understanding ECM in SharePoint 2010
- Content Routing
- Managed Metadata
- Content Types
- Document ID Service

#### **14 - Business Intelligence**

- Excel Services
- PerformancePoint Services
- Reporting Servers 2008 R2
- Reporting on SharePoint Data
- BI Center

#### **15 - Forms**

- Customizing SharePoint List Forms

- Designing InfoPath Form Templates
- Tools for Form Developers
- Building Web Parts Using InfoPath
- Custom ASPX Forms

## **Working Environment**

This course can be taught on site at the Black Ninja offices or can be custom developed and scheduled for delivery at the client location. Please contact one of our ninjas to discuss.

## **Materials**

Materials will be provided in this class. The book used for reference is Professional SharePoint 2010 Development by Tom Rizzo. Each student will take home a copy of this book (availability permitting).

Additional materials and resources will be provided as needed.

\* Subject to change