

# BUILDING LOB APPLICATIONS WITH SILVERLIGHT 4

## OVERVIEW

This course goes through a series of hands-on labs to build an LOB application and focuses on understanding and handling key real-world scenarios from end to end. It aims to give you a kick start for building LOB applications on the Silverlight platform.

## MAIN GOALS

- Understand WCF Data Services
- Understand how to work with large sets of data efficiently
- Learn about authentication
- Learn best practices in building Silverlight applications

## TARGET AUDIENCE

Developers with good understanding of the .NET platform and key Silverlight patterns aiming to learn how to build well performing Line-of-Business applications.

## OUTLINE

### DAY 1

#### 1. WCF

##### A. OVERVIEW

- What is WCF?
- What is WCF Data Services?
- What is OData?
- Service Architecture Overview – Access Restrictions, OData, RESTfull

##### B. WORKING WITH DATA

- Querying data – dynamic queries, lazy loading, provide feedback for data processing
- Handling hierarchical data
- Handle filtering/sorting/grouping on the server
- Handle paging on the server

### DAY 2

*(continued from Day 1)*

- v. Using Telerik RadGridView – binding, templates, container bindings
- vi. Updating data
- vii. Change tracking
- viii. Data validation
- c. **HANDS-ON LAB** – Create a WCF Data Services application with a CRUD form utilizing Telerik RadGridView

### **DAY 3**

*(continued from Day 2)*

- i. Error handling
- D. **SECURITY**
  - i. Authentication and authorization – using Windows and Forms authentication
  - ii. SSL
  - iii. Impersonation
  - iv. Roles
  - v. Profiles
- E. **DEPLOYMENT**
  - i. How to deploy a WCF Data Services solution on IIS 7
- f. **HANDS-ON LAB** – Use windows authentication and deploy on IIS7

## **STUDENT PREREQUISITES**

### **Required**

- Working knowledge in C# 3.0 or later
- Familiarity with Visual Studio
- Working knowledge in Silverlight – XAML, Layout Controls and Panels, Data Binding
- Working knowledge in WCF

## **COURSE DETAILS**

The course is based on latest version of the technologies and tools – Silverlight 4 and Visual Studio 2010.

**Materials** – All students receive course manual and lab source code.

**Duration** - 3 days (12 hours)