

# Flex 4 and LiveCycle Data Services 3: Data Driven Development

Course length: 2 days

## Course Description

**Delivery Method:** Instructor-led training

## Course Content

### Lesson 1: Introducing the Course

- Topic 1A: Introducing mastery learning
- Topic 1B: Understanding the course format
- Topic 1C: Reviewing the course prerequisites
- Topic 1D: Reviewing the course outline

### Lesson 2: Accessing Web Services

- Topic 2A: Using web services .
- Topic 2B: Invoking web service methods and using the results
- Topic 2C: Walkthrough 1: Consuming a web service
- Topic 2D: Handling results using an event handler
- Topic 2E: Walkthrough 2: Using a result event
- Topic 2F: Handling faults .
- Topic 2G: Walkthrough 3: Using a fault event
- Topic 2H: Calling multiple methods from the same WebService object
- Topic 2I: Walkthrough 4: Using <s:operation> compiler tags
- Topic 2J: Passing parameters to web services
- Topic 2K: Walkthrough 5: Passing values to a web service

### Lesson 3: Using Remote Object Connections

- Topic 3A: Introducing LCDS / BlazeDS
- Topic 3B: Understanding the Remoting Service
- Topic 3C: Walkthrough 1: Invoking a remote method through a local RemoteObject proxy
- Topic 3D: Handling RPC events
- Topic 3E: Walkthrough 2: Handling RemoteObject result and fault events
- Topic 3F: Complex remote method calls
- Topic 3G: Walkthrough 3: Specifying method-specific handlers and passing parameters
- Topic 3H: Type conversion during data transfer between ActionScript and Java
- Topic 3I: Walkthrough 4: Sending value objects with a remote method call
- Topic 3J: Managing RemoteObject events using AsyncToken
- Topic 3K: Walkthrough 5: Handling RemoteObject events using AsyncToken
- Topic 3L: Remoting Service Runtime Configuration
- Topic 3M: Walkthrough 6: Configuring the channel for a destination at runtime

### Lesson 4: Managing Data on the Client

- Topic 4A: Understanding collection classes
- Topic 4B: Filtering data on the client
- Topic 4C: Walkthrough 1: Filtering Data on the Client
- Topic 4D: Sorting data on the client
- Topic 4E: Walkthrough 2: Sorting data



Topic 4F: Using the IViewCursor interface  
Topic 4G: Walkthrough 3: Locating Data with a Cursor

### **Lesson 5: Using the Message Service**

Topic 5A: Introducing the message service  
Topic 5B: Walkthrough 1: Reviewing message destination configuration  
Topic 5C: Sending messages  
Topic 5D: Walkthrough 2: Sending messages  
Topic 5E: Receiving and processing messages  
Topic 5F: Walkthrough 3: Receiving and processing a message  
Topic 5G: Sending and receiving complex data  
Topic 5H: Walkthrough 4: Sending and Receiving Complex Data  
Topic 5I: Implementing message filtering  
Topic 5J: Walkthrough 5: Implementing message filters

### **Lesson 6: Using Flash Builder Development Tools**

Topic 6A: Using logging  
Topic 6B: Running the debugger  
Topic 6C: Walkthrough 1: Debugging, Logging, and Conditional Breakpoints  
Topic 6D: Introducing the profiler  
Topic 6E: Walkthrough 2: Profiling an application  
Topic 6F: Monitoring Flex RPC network traffic  
Topic 6G: Walkthrough 3: Using the Network Monitor

### **Lesson 7: Developing Applications Using Model Driven Development**

Topic 7A: Introducing model driven development using LCDS 3  
Topic 7B: Walkthrough 1: Configuring the environment  
Topic 7C: Creating and using the data model  
Topic 7D: Walkthrough 2: Creating a data model and displaying its data  
Topic 7E: Adding properties to the model  
Topic 7F: Walkthrough 3: Creating a derived property  
Topic 7G: Using styles in a form  
Topic 7H: Walkthrough 4: Using styles to format and validate form properties  
Topic 7I: Filtering returned data  
Topic 7J: Walkthrough 5: Filtering data

### **Lesson 8: Implementing Advanced Model Driven Development Techniques**

Topic 8A: Creating conditional properties with variants  
Topic 8B: Walkthrough 1: Implementing a variant.  
Topic 8C: Using resource bundles for localization  
Topic 8D: Walkthrough 2: Localizing the form  
Topic 8E: Altering the form generator template  
Topic 8F: Walkthrough 3: Change ComboBoxes to Lists in the form  
Topic 8G: Generating the server side Java  
Topic 8H: Walkthrough 4: Viewing the server-side Java

**Appendix A:** Student Setup Guide

