

# Fundamentals of Adobe® LiveCycle™ Designer

## Course Description:

This course introduces and describes various techniques for using Adobe LiveCycle Designer 7.1 to create electronic forms that can compliment, or supersede, other means of collecting and presenting enterprise data. After the completion of this course, you will be able to create static and dynamic interactive forms that can reduce data collection and processing errors, and enhance user experience. The course first introduces the basics of form design and describes how to design your forms for efficient data exchange. As the course progresses, more advanced techniques are covered that enable you to add intelligence to your form and to create dynamic layouts that react to the data or to user interactions.

## Course Objective:

After completing this course, participants will be able to perform the following tasks:

- Create a static interactive form, that includes master and body pages, using Adobe Designer 7.1, and manually configure appropriate Designer objects.
- Describe how data sources are used for data handling and form design, and create an interactive form from at least two different data description types.
- Describe the relevant XFA-based object models and implement business logic in a form design by creating scripts, in two scripting languages, that execute client-side.
- Create a dynamic form that adapts to accommodate varying amounts of data, and to user interaction.

## Course Prerequisites:

It is recommended that the participants have the following prerequisites:

- A functional understanding of forms-based business processes and requirements.
- A basic understanding of XML and XML schemas.
- A familiarity with JavaScript.
- A basic understanding of web services and of service-oriented architecture (SOA).

## Course Content

### **Module 1: Designing Forms with Adobe LiveCycle Designer**

Objectives

Working with Designer

The Designer Environment

Designer Objects

Master and Body pages

Form Design Views

Configuring and Organizing Designer Objects

Draw Objects

Field Objects

Complex Container Objects

Object Positioning and Formatting Properties

Custom objects

- Exercise 1.1: Creating and Configuring Master Pages
- Exercise 1.2: Designing Body Pages

Understanding Designer Form Designs

XML Form Designs

Form Design File

Import and Open Documents and Forms

XML Source in Designer

Configuring the Designer Environment

Designer Options

Form properties

- Exercise 1.3: Configuring Form Properties

## **Module 2: Designing Forms for Data Exchange**

Objectives

Working With Form Data

Export and Submit Form Data

Enter, Import, and Merge Form Data

Data Binding

Designing Forms Using an XML Schema or Sample XML Data

Bind an Object to a Data Description Element

XML Schema Data Description

Sample XML Data Description

- Exercise 2.1: Creating a Data Connection (XML Schema)
- Exercise 2.2: Configuring the Form to use Sample Data
- Exercise 2.3: Binding Existing Form Objects to an XML Schema
- Exercise 2.4: Creating Form Objects from an XML Schema

Binding Data to Dynamic Object Properties

Bind to Elements or Attributes

Show or Hide Dynamic Property Indicators

Bind to Dynamic Properties .

Connecting to a Web Service or an OLEDB Database

Binding Form Objects to a Web Service

Binding Form Objects to an OLEDB Database

- Exercise 2.5: Using Complex Binding
- Exercise 2.6: Binding to a Web Service
- Exercise 2.7: Organizing the Form Design with Subforms

## **Module 3: Adding Business Logic with Scripts**

Objectives

Introducing Scripting in Designer

Scripting Languages in Designer

Script Editor

Create Basic Scripts

Designer Script Editor Options

- Exercise 3.1: Reviewing the Scripting Environment

XML Form Object Model

Introduction to XFA Document Object Models

Introduction to the Scripting Object Model

Concept Summary

Events

XFA Document Object Models

Writing SOM Expressions

- Exercise 3.2: Using the Scripting Object Model (SOM)
- Exercise 3.3: Accessing Field Properties and Using the XML Source

Confirming Form Data

Data Validation

Mandatory Data

- Exercise 3.4: Validating Form Data

Debugging

Using the Workspace

Using the JavaScript Debugger

Using Host and Event Accessors

- Exercise 3.5: Debugging with Designer and Acrobat

Advanced scripting

Script Object

Using the Acrobat JavaScript Object Model

- Exercise 3.6: Script Object
- Exercise 3.7: Accessing Other Object Models

## **Module 4: Creating Dynamic Forms**

Objectives

Introducing Dynamic Forms

Dynamic Form Objects

Subforms

Tables

Using Subforms in Dynamic Forms

Subform Types

Using Tables in Dynamic Forms

Tables or Subforms

Dynamic Table Properties.

Designing Data-driven Dynamic Forms

Dynamic Data Binding

- Exercise 4.1: Preparing the Form for Dynamic Content

Formatting Dynamic Forms

Format Tables.

Format Subforms

- Exercise 4.2: Creating an Overflow Leader and Overflow Trailer

Designing User-driven Dynamic Forms

Instance Manager

- Exercise 4.3: Adding Script to Set Dynamic Content