

# Bringing Business Solutions to Life

Course ISI-1432

3 days, Instructor—led, Hands-on

## Introduction

This 3-day instructor-led is for business analysts looking to improve the way they elicit, analyze, document and communicate requirements. From core fundamentals and technical design to quality assurance and implementation, Bringing Business Solutions to Life helps Business Analysts master all the important processes they are likely to encounter when launching new systems.

This workshop begins by reviewing the Business Analysts role throughout the entire lifecycle of a project, and then fills in all the important details. Every key theme along the way is taught using an experiential approach, including how Business Analysts can participate more effectively in the implementation process; how they can ensure that project requirements have been implemented completely; and what tools and techniques are available in the later phases of a project that can help ensure more successful implementations. This content is endorsed by IIBA.

**Audience:** Business Analysts interested in learning about those activities related to successfully launching a new system, with its accompanying process and organizational change.

## At Course Completion

At the end of this course, the student will be able to:

- Produce traceability matrices
- Evaluate solution alternatives
- Develop the user interface using storyboards
- Run an effective user acceptance test
- Perform an impact analysis on the current state versus the desired future state.
- Identify the tasks required to successfully implement the solution within the three components: process change / system change / organization change.
- Evaluate whether the solution is ready to be deployed

## Prerequisites

Successful completion of the following courses or six months or more of practical business analysis experience. Familiarity with software systems analysis, design and implementation.

- Business Analysis Theory and Practice, Course ISI-1231
- Survival Skills for Analysts, Course ISI-1376
- Mastering the Requirements Process, Course ISI-1377

# Course Outline

## Module 1: Introduction

- Getting Started
- Workshop Objectives
- Workshop Agenda
- Value Added Modeling
- What is Business Analysis
- The System Development Life Cycle
- The Case Study
- Getting the Most from This Workshop
- Workshop Logistics
- Workshop Materials

## Module 2: The Building Blocks

- Why Modeling Is Important
- Types of Models
- What is a System?
- Key Abstractions
- Requirements
- SMART Requirements
- Requirements Traceability
- Benefits

## Module 3: Business Modeling

- Object Orientation
- Benefits of Object Orientation
- Syntax and Semantics
- The Perspectives and Architectures of UML
- Visualizing
- The Business Use-Case
- Generalization, Inheritance Relationship
- Assumptions
- Constraints

## Module 4: Classes & Objects

- Elements of Object Orientation
- Class
- Class Diagram
- The Dictionary
- Objects
- Messages
- Sequence

- Sequence Diagram
- Best Practices of Object Orientation

## **Module 5: Behavioral Modeling**

- Activity Diagram

## **Module 6: Use Cases**

- The Use Case
- Why Use Cases?
- Actor-Action Modeling
- Use Case Diagram
- Relationships Between Use Cases
- Identifying Use Cases
- Textual Use Case
- Scenarios
- Use Case Template

## **Module 7: System Views**

- The UML System Architecture Viewpoints
- The Five Perspectives
- The History of UML

## **Module 8: Conceptual Data Models**

- The Principle of Abstraction
- Information Engineering
- Conceptual Models
- Entity Relationship Diagrams

## **Module 9: Logical Data Models**

- Data Modeling Recap
- Drilling Down From the Conceptual Level
- The Three Models
- Conceptual Data Model
- Logical Data Model
- Physical Data Model
- Logical Data Modeling
- Databases
- Keys
- Data Model Views

## **Module 10: Normalization**

- Data Model Quality
- Data Quality Is
- Normalization Tests
- Benefits of normalization

- Functional Dependency and Primary Keys
- First Normal Form
- Second Normal Form
- Third Normal Form
- Fourth Normal Form
- Clear Thinking About Data
- Quality Assurance
- Semantic Analysis

## **Module 11. Value Added Modeling**

- Requirements Prioritization
- Requirements Re-use
- Isomorphism
- So Which Approach?