

# The Solarity Group

Bright Ideas. Clear Solutions.



## Advanced Business Analysis

Description	This workshop uses a case study to help you explore two standard approaches to conceptual modeling: the Unified Modeling Language and Information Engineering. It is designed to be prescriptive as well as descriptive. This means that best practice will be emphasized through explanation and application. You will discover what should be done as well as how to do it, and why.
Length	3 days
Professional Development Units	21 contact hours
Prerequisites	Six months or more of practical business analysis experience. Familiarity with software systems analysis, design, and implementation is also recommended. Also, can take Fast Start® in Business Analysis
Building Block For	<ul style="list-style-type: none"><li>Mastering the Requirements Process</li></ul>
Materials	Custom materials provided by Instructor.
Who Should Take This Course	Business analysts, technical analysts, project managers, and subject matter experts who need to capture, document, and communicate well-formed requirements for complex software systems.
Rate	\$1,495 / person Discounts available for on-site classes or for multiple attendees



**The Solarity Group**

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Fast Start® in Business Analysis

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# Course Contents

## UML Overview

- Why Modeling Is Important
- Key Abstractions
- Now for the hard question: is a system reality, or is it a description of reality?
- Well-formed Requirements
- SMART Requirements
- Requirement Types
- Requirements Traceability
- Requirements and the SDLC
- The Use Case
- Object Orientation
- Requirement Types
- Requirement Identifier Scheme
- Model Element Naming Convention
- Change Control System.

## UML Language Basics

- Syntax and Semantics
- Visualizing
- The Software System Perspectives of the UML

## The Building Blocks

- Things
- Class
- New CSOC Requirements Specification (excerpt)
- New CSOC out-of-scope items
- New IMS Requirements Specification (excerpt)
- Object
- Message
- Sequence
- Sequence Diagram
- Use Case
- Graphical Use Case
- Textual Use Case

## Model Analysis

- Enterprise Analysis Methodology
- Akmee Communications Project Charter
- Business Use-Case Model Refinement
- Activity Diagram

## System Views

- The UML System Architecture Viewpoints
- The History of the UML
- The Boundary Between Conceptual and Technical Design

## Use Cases – Everything You Always Wanted to Know

- Actor-Action Modeling
- Scenarios

## Conceptual Data Models

- The Principle of Abstraction
- Information Engineering

## Logical Data Models

- Drilling Down From the Conceptual Model Level
- Requirements Traceability From the Data Perspective
- Data Model Views

## Normalization

- Data Model Quality
- Normalization Tests
- Functional Dependence and Primary Keys
- First Normal Form
- Second Normal Form



- Third Normal Form
- Fourth Normal Form
- Clear Thinking About Data
- Quality Assurance
- Entity Rules
- Attribute Rules
- Primary Key Rules
- Relationship Rules

## Comparing and Contrasting the UML and IE

- Gen-Spec Models for Classes and Entities

## Wrap-Up

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