



## Requirement Analysis using UML® Course Outline

### Objectives

- Learn how to use various UML® 2.x modeling elements to elicit and analyze requirements
- Understand UML® best practices for Requirements Analysis

### Audience

- Professionals interested in using UML® for Requirements Analysis

### Prerequisites

- Introduction to UML®
- Advanced Business Analysis

### Course Description

The Unified Modeling Language™ (UML®) is the industry-standard notation for producing the models of a system. In this course, you will learn more about using UML® elements in regards to requirements analysis. This includes creating Use Cases for requirements analysis, Activity Diagrams for process analysis, Class Diagrams for domain analysis and Sequence diagrams for Use case realizations. Each course involves hands-on exercises to ensure a complete understanding of the topics.

### Duration

2 Days

### Agenda

#### Day 1

- Overview of UML®
- Modeling Scenarios
  - Overview of Use Cases, Use Cases & Actors, Use Case Diagrams, Include & Extend Relationships, and Extension Points
- Modeling Workflow
  - Action Vs Activity, Activity Diagrams, Synchronization bars, Decisions, and Guards

#### Day 2

- Modeling structure requirements
  - Class diagram, Attributes & Operations, Relationships & Multiplicity
- Modeling Interaction
  - State Machine Diagrams, States, Transitions, Events, Guards, Actions, and Activities
- Modeling User Interface
- Use Case Realization
  - Sequence Diagrams