

## The Unified Modeling Language (UML 2)

Duration	3 days
Audience:	Software architects, development team managers, project managers, product managers, software developers, programmers, technical writers
Pre-requisites:	Participants should be familiar with the basic principles of software engineering and have some experience with object-oriented programming
Brief Description:	This course teaches the essentials of the industry standard UML 2 modeling language and related support technologies (course taught by one of the original UML designers)

### Description:

The course covers the architecture and all the essential modeling capabilities of the most recent version of the industry-standard UML 2 software modeling language. Practical examples are used throughout to illustrate the use of different features of the language. Particular focus is placed on demonstrating how UML 2 can be used as a foundation for domain-specific language design. The instructor was a member of the UML 1 and UML 2 core design teams.

### Target Audience

Software architects, development team managers, project managers, product managers, software developers, programmers, and technical writers

### Course Level

Intermediate

### Course Pre-requisites

Participants should be familiar with the basic principles of software engineering and have some experience with object-oriented programming

### Course Objectives

To teach how to use UML 2 and related technologies to maximum effect.

## Course Outline:

### PART I: Computer-based modeling languages

- I.1. The characteristics of engineering models and model-based engineering (MDE)
- I.2. The Object Management Group (OMG) and its language standards
- I.3. Specifying modeling languages: the Meta-Object Facility (MOF)

### PART II: The Unified Modeling Language (UML 2)

- II.1. Basic UML concepts
- II.2. On the semantics of UML
- II.2. UML diagram types
- II.3. The UML profile mechanism

### PART IV: On Model-Driven Engineering (MDE)

- IV.1 Agile model-based development processes
- IV.2 MDE development frameworks
- IV.3 MDE profiles

### SUMMARY