



Object Oriented Analysis & Design using UML 2

Course Background:

The object-oriented (OO) development of software systems has undergone a dramatic evolution in the last couple of years. This is mainly due to the introduction of a single common language for visualizing and documenting software design. Over the past decade, under the supervision of The Object Management Group (OMG), the Unified Modeling Language (UML) has developed into a design-language standard that is generally accepted and widely used.

Course Benefits:

This course is aimed at providing basic working knowledge of the UML 2 notations as well as insight in the design goals and usage of these notations. After this workshop, participants will be able to:

- understand the underlying modeling methods
- understand a generic OO development approach and the corresponding documentation structure
- apply the basic OO concepts to the development of embedded systems and define the abstractions needed
- analyze a development problem and deliver diagrams and descriptions to construct a software solution
- oversee the problems and issues that have to be dealt with in an architectural design and implementation

Who will benefit from this course?

- Software developers
- Software engineers

Pre-requisites:

The participants will need to have an initial understanding of object-oriented programming languages, like C++ or Java.

Course Contents:

Course duration: 5 days

Introduction	Introduction to OO
	UML Overview
	Demo of a model documented in UML, according to the Unified Process
UML Notations and problem analysis	Class and Object modeling
	Use-Case modeling
	Object Interaction modeling
	Object Behavior modeling
Workshop (1 day)	Carrying out the analysis of an example problem
Architecture	From analysis to design
	Patterns and architecture

Course Format:

Teaching Method: Lectures, small exercises and workshop
 Teaching Material: Workbook, CD containing the UML specification document in PDF.
 Language: English or Dutch
 Instructor: This course is delivered by a Certified UML Advanced professional



The lectures will be followed by small exercises to practice modeling with UML and get a working knowledge of basic notations. The emphasis is on obtaining a good mental separation between analysis of a problem and construction of a solution. The workshop aims at providing a good understanding of the relationships between the various models as well as a feeling for heuristics to obtain effective object decompositions.

Additional Options:

Please indicate any desired options when signing up for this course, or contact your account manager.

Terms and conditions:

The standard terms and conditions of Mithun Training & Consultancy are applicable. We will send you a copy on request.