

Unified Modeling Language («UML»)

In this course, you will acquire the necessary knowledge of UML diagrams to understand and create corresponding models and to be able to assess their statements.

Duration: 2 days

Price: 1'500.–

Course documents: Digicomp course material and accompanying book

Vendor code: OCUP 2

Content

The UML diagrams and their various display options are covered in this course. Using practical exercises and examples, you will learn how to create and read UML diagrams and how they are interrelated. This makes this course ideal for anyone who wants to create and understand use case and process models as well as object-oriented models, e.g. architects, developers, project managers, analysts, quality managers, testers and system managers.

1. Introduction
 - History of the course
 - Purpose and benefits
 - Structure
 - Use in the development process
2. Modeling
 - Basics
 - Benefits
3. Use case diagram
4. Structure diagrams
 - Class diagram
 - Object diagram
 - Package diagram
 - Component diagram
 - Composition structure diagram
 - Distribution diagram
5. Behavior diagrams
 - Activity diagram
 - State diagram
 - Sequence diagram
 - Communication diagram
 - Interaction overview diagram
 - Time diagram
6. Extension possibilities
 - Metamodel
 - Stereotypes
 - Profiles
 - Tagged Values
 - Object Constraint Language (OCL)
7. Tools
 - Overview of tools
 - Selection criteria
8. Outlook
9. Certification
 - Overview

Key Learnings

- Knowledge of UML diagrams and their notation options
- Basic understanding of the models created in UML and ability to evaluate them
- Application of UML diagrams in your projects
- Ideal preparation for the preparatory courses for the official and internationally recognized OMG certifications: "OMG-Certified UML Professional 2 Foundation™", "OMG-Certified UML Professional 2 Intermediate™" and "OMG-Certified UML Professional 2 Advanced™"

Methodology & didactics

The individual theoretical foundations of UML are covered in short, timed units. Numerous practical exercises, which alternate with the theoretical units, are used to apply and deepen the knowledge of UML in a practical way.

Target audience

This course is aimed at all persons working in IT, e.g. architects, developers, analysts and testers, but also e.g. project managers or quality officers who already have experience with object orientation and UML and would like to acquire further knowledge of UML.

In addition, this course is aimed at anyone who would like to attend our preparatory courses for the official and internationally recognized certifications «OMG-Certified UML Professional 2 Foundation™», «OMG-Certified UML Professional 2 Intermediate™» and «OMG-Certified UML Professional 2 Advanced™» following the course.

This course is not aimed at software architects and software developers who want to learn the object-oriented modeling of software. For this, we require attendance of the Object-Oriented Analysis and Design (OOU) course or equivalent specialist knowledge.

Requirements

Knowledge of the development of object-oriented software is an advantage. The minimum requirements are knowledge of object orientation and UML, as taught in the following courses:

- Object-oriented Analysis and Design (OOAD) («OOU»)
- Basics of Object-oriented Software Development («OGL»)

Further courses

- Exam Preparation – OMG Certified UML Professional 2 Foundation™ (OCUP 2™ Foundation™) («UMLFOU»)
- UML Professional 2 Foundation («UMLZFP»)
- Sparx Enterprise Architect – An easy entry-level («SEELG»)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-software-engineering/software-engineering-modelling/course-unified-modeling-language

