

Course : UML 2 for project management

Practical course - 4d - 28h00 - Ref. MOD

Price : 2790 CHF E.T.

Every IS project is initiated by an analysis, which must be independent of the IT method used, and which ideally refers to the same concepts as design and implementation. This training course will enable you to master UML 2.0, which offers a highly effective response to this problem.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understand the benefits of using UML for project management
- ✓ Formalizing a business process
- ✓ Diagnosis and reconfiguration
- ✓ Using UML throughout an IS project

Intended audience

Project managers, analysts, designers and anyone involved in IT projects using UML to model requirements and the expected solution.

Prerequisites

Experience in application analysis and design desirable.

Course schedule

1 Presentation and concepts

- The current information systems context.
- The role of the project owner.
- Modeling methods, the role of UML.
- Object-oriented concepts: class, Object, generalization, specialization, inheritance...
- UML 2: presentation of developments.

2 UML and project stages

- Needs analysis. UML models, role of the project manager.
- Solution design. UML models, role of the project owner.
- MOA's specifications for MOE.

PARTICIPANTS

Project managers, analysts, designers and anyone involved in IT projects using UML to model requirements and the expected solution.

PREREQUISITES

Experience in application analysis and design desirable.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

3 Describing business processes

- The communication diagram: role of objects, messages, transmission conditions...
- Use cases. Scenarios. Relationships and constraints between cases.
- Activity diagrams to describe activities and the organization of processes.
- A variant: the interaction diagram.
- Sequence diagrams to describe exchanges between actors in a process.

Hands-on work

Process description. Case study: describe the context in UML, the activities of a business process,

4 Describing information

- The class-entity diagram to model data.
- Attribute, operation, association...
- The state diagram.

Hands-on work

Create a data dictionary.

5 Diagnosis and reconfiguration

- Diagnose the existing system.
- Select reconfiguration axes.
- Typical reconfigurations.
- Analysis of data and process organization.

6 IT solution design

- Defining the application context. The inter-application communication diagram.
- Describe functions with use cases, sequence and communication diagrams.
- Representation of existing and target architecture with component and deployment diagrams.
- Relationship to database schemas.

Hands-on work

Outline definition of a target architecture.

7 UML and the project approach

- Integrating UML into a project process. Reduce risks and organize the production of deliverables.
- Presentation of the unified process (UP). Activities and phases.
- The place of UML in a unified process.
- Model-driven development.
- Introduction to other project processes (XP, etc.).

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

Dates and locations

REMOTE CLASS

2026 : 30 June, 15 Dec.