

Course : Expression of user needs, best practices

Practical course - 2d - 14h00 - Ref. EXU

Price : 1650 CHF E.T.



Points PDU

In all phases of an IT solution implementation or integration project, the collection and formalization of business requirements is essential. This course introduces you to the approach and tools for describing business processes and functional architecture, with a view to producing a relevant and comprehensible expression of requirements.

Teaching objectives

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

- ✓ Understanding the requirements expression phase in a classic and agile project
- ✓ Describing a business process and business data
- ✓ Describe the functional architecture of the system to be implemented
- ✓ Estimating development costs
- ✓ Using UML to express requirements

Intended audience

Project owners, project management assistants, project managers, analysts, designers and anyone involved in an IT project.

Prerequisites

No special knowledge required.

Course schedule

1 Expressing needs in a project

- Opportunity, feasibility, specifications. Validation of needs/specifications.
- Definition of the various components of the information system.
Experimentation and pilot site.
- Stakeholders : MOA/MOE, users, decision-makers, experts, lawyers...

PARTICIPANTS

Project owners, project management assistants, project managers, analysts, designers and anyone involved in an IT project.

PREREQUISITES

No special knowledge required.

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.

2 Diagnosis of existing facilities

- The origin of the need: how do you go from an idea to a project?
- Definition of scope, exchanges and players.
- Description of processes and activities.
- Use cases. Flotsam, scenarios. Data, entities, associations. UML class diagrams.
- Diagnosis. Analysis of processes and associated organization, data analysis.

Hands-on work

Represent the scope of a project. Describe a process. Identify its information blocks.

3 System reconfiguration

- Process and data reconfiguration axes. The "diabolical quadrilateral".
- Description of scenarios for a selection file. Selection criteria: ROI, VMA.
- Non-economic selection criteria.

Hands-on work

Calculation of a VMA for two proposed scenarios.

4 Formalization of requirements - Application development

- Description of the functional architecture of the future application.
- Definition of product quality requirements.
- Typical outline of a development specification.

Hands-on work

Describe functionalities based on a business process. Search for quality metrics.

5 Estimated development costs

- Delphi method.
- Function point method for estimating the development of system components.
- Proportional distribution.

Exercise

Implementation of function points.

6 Expression of need for software integration

- Definition of software selection criteria.
- Description of software parameterization choices.
- Software package integration specifications.

7 Agile organization of requirements expression

- Expressing needs using Agile methods.
- JRP: a participative approach in session. eXtreme Programming: the customer on site.

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.

REMOTE CLASS

2026 : 22 June, 5 Oct., 14 Dec.