Object Oriented Analysis and Design – Fundamentals

Description

This object-oriented design training course provides a solid understanding of modern analysis and modeling methods. Participants learn how to effectively represent software requirements through use cases and UML diagrams. This approach enhances communication between teams and ensures the development of reliable and scalable systems.

Why take this object-oriented training

Object-oriented design has become essential for creating robust and scalable software. With a use case–driven approach, this course offers a practical and immediately applicable method. Participants will learn how to use UML to visually represent processes and clarify architectural choices. Each module combines theory with concrete examples to make application easier in a professional context.

Course Content
Module 1: Unified Modeling Language and object-oriented concepts

- Relationships
- Classes
- Polymorphism
- Interfaces
- Requirements
- Structured classes and ports

Module 2: Architectural analysis

- Key concepts
- Defining a high-level organization of the model
- Identifying analysis mechanisms
- Identifying key abstractions
- Creating a realization case study

Module 3: Analysis case study

- Additional descriptions of a case study
- Finding classes in a case study
- Distributing case study behaviors across classes
- Describing responsibilities
- Describing attributes and associations
- Qualifying analysis mechanisms
- Unifying analysis classes

Lab / Exercises

- During the course participants are encouraged to actively participate in the learning experience by running example files during lectures and performing design challenges during labs. Each lab session allows you to compare your solution to the instructor's

Documentation

- Digital courseware included

Participant profiles

- IT Analysts
- Software Developers
- Application Architects
- Technical Project Managers

Prerequisites

- Having followed the training UML Foundation

Objectives

- Use an efficient method for IT analysis
- Use iterative and Use Case centric and architecture model
- Use UML to represent the model
- Use objects paradigms (abstraction, encapsulation, inheritance, ...)

Description
Object-Oriented Analysis and Design Training – Fundamentals
Niveau
Fondamental
Classroom Registration Price (CHF)
2300
Virtual Classroom Registration Price (CHF)
2150
Duration (in Days)
3
Reference
OOAD-01