

Managing Object-Oriented Projects

CDT726

This course presents the concepts, tools, techniques, and methods needed to effectively manage large or small object-oriented projects.

Audience

- The course is appropriate for project leaders or team members who are, or will be, managing or participating in object-oriented projects.

Prerequisites

- Students must be familiar with the [terms and concepts for object-oriented programming](#).
- Programming ability is not required.

Course Length

- One day

Learning Objectives

- The student will be able to use the tools and techniques needed to effectively manage object-oriented projects.

Teaching Methods

- Lecture
- Written exercises
- Integrated case studies

Course Outline

SG5

Object-Oriented Development as a Management Tool

- The Enemies
- Conquering Enemies with Object Technology
- Collaboration
- Team Communications
- Team Dynamics

The Unified Modeling Language as a Management Tool

- Using Abstraction
- The Unified Modeling Language
- Documenting Requirements
- Documenting Software Design
- Attributes of a Good Design
- Components and Subsystems
- Traceability

Choosing a Lifecycle Development Model

- Lifecycle Model Principles
- Four Lifecycle Models
- Incremental Builds

Planning Object-Oriented Projects

- Developing the SDP
- Designing the SDP

Managing the Inception Phase

- Management Overview
- Development Activities
- Process Tasks
- Coordinating Activities
- Customer Communications
- Phase Completion

Managing the Elaboration Phase

- Management Overview
- Development Activities
- Process Tasks
- Coordination of Activities
- Customer and Manager Communication
- Phase Completion

Managing the Construction Phase

- Management Overview
- Development Tasks
- Construction Process Tasks
- Coordination and Tracking Activities
- Construction Phase Exit Criteria

Managing the Transition Phase

- Management Overview
- Development Activities
- Transition Process Tasks
- Coordination of Activities
- Customer Communication
- Transition Phase Exit Criteria

Tracking and Oversight

- Budget Tracking
- Development Metrics
- Monthly Status Report