

# Managing Object-Oriented Projects

CDT726

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

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## 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

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## 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