



CDT 725 Rational Unified Process 3 Days

Course Description

This course introduced students to the RUP (Rational Unified Process), as a philosophy, a process, and a product. They will learn best practices in software engineering, as embodied in the RUP, and how to apply them.

Students learn the phases of a RUP project, the activities which take place in each phase, and how various job roles fit into the overall project. The basic principle of iterative development is covered, and students learn to identify and write use cases. Students will have an opportunity to apply RUP in a simulated project.

Students will work with IBM's RUP product, and learn how it can be customized for different types of projects and different organizations. The course also covers some of the common issues that should be considered when converting to the use of RUP from some other project process.

Audience

A wide variety of job roles can benefit from this course, including project managers or leads, analysts, designers, architects, developers, testers, and anyone else who will be involved in a software project.

Prerequisites

Students do not need to have any prior knowledge of or experience with the Rational Unified Process. However, a general knowledge, from course work or practical experience, of the software development process will be helpful.

Topics

Module 1

- Introduction
- RUP as an Approach
- RUP as a Process.
- RUP as a Product.
- Exercise



Module 2

- The Guiding Principles of the RUP
- The RUP vs the Waterfall
- The Iterative Approach
- Exercise

Module 3

- Introduction to Use Cases
- Actors
- Diagrams
- Base Use Case Descriptions
- Alternatives
- Instance Scenarios
- Other Requirements
- Exercise

Module 4

- Types of Project Configurations
- Example of a Small Software Project

Module 5

- The RUP Project Lifecycle
- Inception Phase
- Elaboration Phase
- Construction Phase
- Transition Phase
- Exercise

Module 6

- Configuring the RUP
- Customizing the RUP
- Exercise

Module 6

- Roles in a RUP Project
- Project Manager
- Analyst
- Architect
- Developer
- Tester



Module 7

- Adopting the Rational Unified Process
- A Program for Moderate Change
- A Program for Major Change
- Planning an Iterative Project
- Project Plans vs Iteration Plans
- Estimating

Module 8

- Common Mistakes and How to Avoid Them
- Adopting the RUP
- Managing Iterative Development
- Analysis, Architecture, Design, Implementation, and Testing
- Transitioning to the RUP

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