

IBM Rational Software Modeler Fundamentals

Objectives

- Learn how to apply key features of IBM® Rational® Software Modeler
- Practical tool usage guidelines for capturing UML models for
 - Use cases
 - Analysis
 - Design

Description

IBM Rational Software Modeler Fundamentals provides students with a hands-on opportunity for learning how to capture an analysis and design model with the Unified Modeling Language 2.0 (UML) with IBM Rational Software Modeler (RSM). Starting with an overview of RSM, students will learn how to create, delete, and move model elements, draw relationships, review various tool configuration options and model structuring and organization guidelines. Students will create actors and use cases and place them on use case diagrams. Then the structure for capturing the design of a use case is created using use case realizations. The course then goes through how to build communication, sequence, and class diagrams for a use case realization. Modeling of state-driven behavior is covered through the use of state machine diagrams. Then students learn how to model subsystems and interfaces and their internal design using a subsystem interface realization. Most class time is used for students to do hands-on lab exercises following a step-by-step workbook.

Course Outline (Modules and Topics)

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| <ul style="list-style-type: none"> • Draw Use Case Model <ul style="list-style-type: none"> • RSM user configuration • Use cases, actors, and packages • Use case diagrams • Draw System Workflow Diagram <ul style="list-style-type: none"> • Activity diagram • Activities, synchronization bars • Transitions, decisions, guards • Create Analysis Realization <ul style="list-style-type: none"> • Analysis model • Collaborations and analysis realizations • Identify Analysis Classes <ul style="list-style-type: none"> • Participants diagram • Analysis model organization • Draw Event Flow Diagrams <ul style="list-style-type: none"> • Sequence diagrams • Objects and messages • Creating operations from messages | <ul style="list-style-type: none"> • Draw Participants Diagrams <ul style="list-style-type: none"> • Class diagrams • Associations, multiplicity • Attributes • Additional relationships • Draw State Machine Diagrams <ul style="list-style-type: none"> • States, transitions, events • Guards, actions, activities • Map operations to events • Model Subsystem Design <ul style="list-style-type: none"> • Sequence and class diagrams • Architectural pattern • Subsystems and interfaces • Subsystem interface realizations • Subsystem dependencies |
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Duration

1 day

Course

01-0607

Prerequisites

- Use Case Modeling Fundamentals course
- Object-Oriented Analysis with UML course
- Object-Oriented Design with UML course

In partnership with

Audience

- Software architect
- System analyst
- Designer
- Developer
- Test designer
- User interaction architect
- Business architect

Continuing education

- Introduction to IBM Rational Analyst Tools
- IBM Rational SoDA for Word Fundamentals
- Introduction to IBM Rational ClearQuest
- Customizing IBM Rational Suite

Classroom requirements

- IBM Rational Software Modeler

Proven ▶▶▶▶▶ Practical ▶▶▶▶▶ Process™