

## Rational Unified Process Fundamentals

### Objectives

- Introduce six best practices of software engineering
- Discuss elements used to describe the IBM Rational Unified Process® (RUP®)
  - Discipline, role, activity, artifact
- Introduce key elements of the Unified Modeling Language® (UML®)
- Introduce iterative development fundamentals
  - Phases and iterations
- Discuss key aspects of RUP disciplines
  - Requirements
  - Analysis & Design
  - Project Management
  - Implementation
  - Test
  - Configuration and Change Management
  - Deployment
  - Environment
- Prepare for *IBM Rational Certified Specialist for Rational Unified Process* exam

### Description

*Rational Unified Process Fundamentals* explains key concepts of the IBM Rational Unified Process (RUP) and its fundamental characteristics as an iterative, use case driven, and architecture-centric software development process. The course begins with a discussion of six best practices for software development and then provides an overview of how the RUP is described with disciplines, roles, activities, and artifacts. Then each discipline of the RUP is reviewed through a discussion of workflow details, roles, major artifacts, and guidelines. An introduction to the Unified Modeling Language and an overview of iterative planning are also discussed. Each module is concluded by classroom discussion, answering multiple choice questions, and project planning simulations.

*Rational Unified Process Fundamentals* is especially designed for those IT professionals pursuing official IBM certification as an IBM Rational Certified Specialist for Rational Unified Process.

### Course Outline (Modules and Topics)

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| <ul style="list-style-type: none"> <li>• Best Practices                             <ul style="list-style-type: none"> <li>• Develop iteratively</li> <li>• Manage requirements</li> <li>• Use component architectures</li> <li>• Model visually</li> <li>• Continually verify quality</li> <li>• Control change</li> </ul> </li> <li>• Process Overview                             <ul style="list-style-type: none"> <li>• Role</li> <li>• Activity</li> <li>• Artifact</li> </ul> </li> <li>• Requirements Discipline                             <ul style="list-style-type: none"> <li>• Workflow details</li> <li>• Roles</li> <li>• Major artifacts</li> <li>• Guidelines</li> </ul> </li> <li>• Analysis and Design Discipline</li> </ul> | <ul style="list-style-type: none"> <li>• Introduction to UML                             <ul style="list-style-type: none"> <li>• Object-oriented concepts</li> <li>• Core UML diagrams</li> <li>• Fundamental UML elements</li> </ul> </li> <li>• Introduction to Iterative Development                             <ul style="list-style-type: none"> <li>• Definition of iteration</li> <li>• Iterative planning approach</li> </ul> </li> <li>• Phases and Milestones                             <ul style="list-style-type: none"> <li>• Inception, elaboration, construction, and transition</li> </ul> </li> <li>• Project Management Discipline</li> <li>• Implementation Discipline</li> <li>• Test Discipline</li> <li>• Configuration and Change Management Discipline</li> <li>• Deployment Discipline</li> <li>• Environment Discipline</li> </ul> |
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### Duration

3 days

### Course #

01-0402

### Prerequisites

- Exposure to software development

### Continuing education

- Iterative Development Fundamentals
- Requirements Management with Use Cases
- Object-Oriented Analysis and Design with UML
- IBM Rational tool training

### Classroom requirements

- Desktop PC for each student
- Microsoft Internet Explorer 6.0
- IBM Rational Unified Process v2003.06.13

### In partnership with

### Audience

- Project manager
- Architect
- Business/system analyst
- Test manager/analyst
- Designer
- Developer

Proven ▶▶▶▶▶ Practical ▶▶▶▶▶ Process™