



IBM Software Group

P17 System Testing

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Course Introduction

Rational. software



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“Sausages, laws and software – watching them being made can be pretty messy”.



Introductions

- Instructor
- Attendees
 - ▶ Your name, title, and company
 - ▶ Your background and experience
 - Software development
 - Test management
 - Testing tools
 - ▶ What do you hope to learn from this session?



Course Goals

Upon completion of this course, you will learn:

- The purpose of testing
- To identify core testing activities and different levels of testing
- The different focus areas for Unit Testing, Functional Testing and System Testing
- The iterative development process referring to the Rational Unified Process to illustrate concepts and skills



Course Objectives

The objectives of this course are to explore the purpose of testing. We will identify core testing activities and discuss levels of testing. At the end of the course you will be able to:

1. Define the purpose of testing
2. Identify four key testing activities
3. Give examples of testware
4. Describe how the test planning activities relate to the overall development cycle
5. Define various levels of testing and their focus areas
6. Explain the different triggers for each test phase
7. Understand the testing iterative development process



Topics Not Covered in This Session

- Designing and preparing for the different types
- Creating and executing tests and their associated test runs
- Automating test management

All of the above topics are covered in other courses offered by IBM



Intended Audience

- **Testers** who need to create and execute tests
- **Test Managers/Team Leads** who need to manage their testing efforts

Also useful for:

- **Software developers** who want to understand how to perform testing
- **Software managers** who need to better understand the impact of testing on their projects



Related IBM Rational Testing Tools

- IBM Rational Manual Tester
- IBM Rational Functional Tester
- IBM Rational Robot
- IBM Rational Performance Tester
- IBM Rational ClearQuest
- IBM Rational ClearQuest TestManager
- IBM Rational RequisitePro
- IBM Rational Method Composer
- IBM Rational Application Developer (RSM)



Related IBM Rational Courses

- Essentials of IBM Rational Manual Tester (TST270)
- Essentials of Test Management with Rational TestManager (TST275)
- Essentials of Test Management with IBM Rational ClearQuest (CQTM) (TST290)
- Essentials of IBM Rational Functional Tester (TST220; TST279 or TST221)
- Essentials of IBM Rational Performance Tester, V6.1 (TST370)
- Essentials of IBM Rational ClearQuest (SCM290 or SCM205)
- Essentials of Rational RequisitePro For Rational RequisitePro version 2003.06.00 (REQ370 or REQ310)
- Essentials of Rational ClearQuest v2003.06.00 (SCM290 or SCM205)
- Mastering Rational ClearQuest Administration v2003.06.00 (SCM490)
- Mastering ClearQuest MultiSite Administration v2003.06.00 (SCM495)



Online Resources

- IBM® developerWorks® Rational tools and resources

- ▶ www.ibm.com/developerworks/rational

- ▶ Product documentation, technical articles, online discussions, *the Rational edge* (e-zine), user groups, and more

- Rational tools Web site

- ▶ www.ibm.com/software/rational



Course Schedule

- Module 1: Definition and Purpose of Testing
- Module 2: Introduction to Test Levels and Triggers
- Module 3: Unit Testing
- Module 4: Functional Testing
- Module 5: System Testing
- Module 6: Testing Iteratively
- Module 7: Module Summary
- Module 8: IBM Rational Testing Solutions



Logistics

