



IBM Software Group

P17 System Testing

Monday, September 24, 2007

Module 7 : Module Summary

Rational. software



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Module Summary

After completing this course, you should understand the following:

- The purpose of testing is to evaluate products to measure results against requirements, document differences, and help resolve differences.
- Core testing activities are analysis and modeling, design, implementation, and execution.
- Testing techniques include: static testing, dynamic testing, white-box testing, and black-box testing.



Module Summary (Cont.)

- Testware are deliverables from the testing process. Examples include:
 - Test plans
 - Test cases
 - Test scripts and programs
 - Test procedures
 - Test data files
 - Test reports
 - Defect reports



Module Summary (Cont.)

- Every software project has distinct phases, and every test effort has distinct levels. Test activities include:
 - Analyze
 - Design
 - Implement
 - Execute

- In an iterative model (RUP), the test levels are repeated as appropriate for each phase and iteration.



Module Summary (Cont.)

- Test levels are:
 - Unit Testing
 - Functional Testing
 - System Testing
 - Integration Testing
 - Acceptance Testing



Module Summary (Cont.)

- Triggers are the conditions or environment under which a defect surfaces. Each test level has its own set of triggers that must be checked.



References

The following is a list of resources where you can learn more about testing and the information covered in this course:

1. Myers, Glenford. *The Art of Software Testing*. Wiley, 1979, 2004.
2. Hetzel, Bill. *The Complete Guide to Software Testing*. Wiley, 1988, 1998, second edition 1988.
3. IEEE, An American National Standard IEEE Standard Glossary of Software Engineering Terminology, IEEE Standard 610.12-1990.
4. [The Center for Software Engineering](#), part of the IBM Research Web site, includes information about Orthogonal Defect Classification.



What is Testing Purpose?

The purpose for testing is to *execute or evaluate programs or systems that do the following:*

- **Measure** the results against the requirements
- **Document** the difference between the expected and actual results
- Assist in **resolving** those differences by providing the proper debug aids



QUESTIONS

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THANK

YOU

