



RUSHIL TECHNOLOGIES

A unit of
Krishko telecom services pvt.ltd
An ISO 9001:2008 certified company

Software testing course content

MANUAL TESTING

1 - Fundamentals of testing 11

- **Why is testing necessary**
 - **Software systems context**
 - **Causes of software defects**
 - **Role of testing in software development, maintenance and operations**
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- ✓ Testing and quality
 - ✓ How much testing is enough?
 - ✓ What is testing?
 - ✓ General testing principles
 - ✓ Fundamental test process
 - ✓ Test planning and control
 - ✓ Test analysis and design
 - ✓ Test implementation and execution
 - ✓ Evaluating exit criteria and reporting
 - ✓ Test closure activities
 - ✓ The psychology of testing

2 - Testing throughout the software life cycle

- ✓ Software development models
- ✓ V-model (sequential development model)
- ✓ Iterative-incremental development models
- ✓ Testing within a life cycle model
- ✓ Test levels
- ✓ Component testing
- ✓ Integration testing
- ✓ System testing
- ✓ Acceptance testing
- ✓ Test types



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- ✓ Testing of function (functional testing)
- ✓ Testing of non-functional software characteristics (non-functional testing)
- ✓ Testing of software structure/architecture (structural testing)
- ✓ Testing related to changes (confirmation testing (retesting) and regression testing)
- ✓ Maintenance testing

3 - Static techniques

- ✓ Static techniques and the test process
- ✓ Review process
- ✓ Phases of a formal review
- ✓ Roles and responsibilities
- ✓ Types of review
- ✓ Success factors for reviews
- ✓ Static analysis by tools

4 - Test design techniques

- ✓ The Test Development Process
- ✓ Categories of test design techniques
- ✓ Specification-based or black-box techniques
- ✓ Equivalence partitioning
- ✓ Boundary value analysis
- ✓ Decision table testing
- ✓ State transition testing
- ✓ Use case testing
- ✓ Structure-based or white-box techniques
- ✓ Statement testing and coverage
- ✓ Decision testing and coverage
- ✓ Other structure-based techniques
- ✓ Experience-based techniques
- ✓ Choosing test techniques



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5 - Test management

- ✓ Test organization
- ✓ Test organization and independence
- ✓ Tasks of the test leader and tester
- ✓ Test planning and estimation
- ✓ Entry and Exit criteria
- ✓ Test estimation
- ✓ Test approaches (test strategies)
- ✓ Test progress monitoring and control
- ✓ Defect Lifecycle
- ✓ Test progress monitoring
- ✓ Test Reporting
- ✓ Test control
- ✓ Configuration management
- ✓ Risk and testing
- ✓ Project and Product risks
- ✓ Incident management

6 - Tool support for testing

(Training on Quality Centre)

- ✓ What is Quality Centre
- ✓ Creating requirements and test cases in QC
- ✓ Executing Test cases from QC
- ✓ Logging Defect in QC
- ✓ Reporting from QC