



QA (Manual Testing)

Lesson 1. Manual Test Process Implementation

- Introduction to Software Testing and Quality
- Software Life Cycle Stages
- Software Development Models
- Testing Techniques: Static Testing , Dynamic Testing , Black Box Testing, White Box Testing
- Software Quality Assurance Standards CMMI Model and SIX SIGMA
- Test Planning, Test Design and Test Execution
- Test measurement Techniques and Metrics Collection
- Defect Management
- Defect Severities and Priorities
- Defect management and defect resolution process
- User Acceptance Testing
- Testing Terminologies

Lesson 2. Test Management with Quality Center (QC)

- Introduction to Quality Center
- Defining Test Requirements
- Adding Test Cases
- Planning Test execution
- Mapping Business Requirements to Test cases
- Adding Defects
- Generating Graphs and Reports
- Export requirements to Quality Center
- Export Text Cases to Quality Center from Excel

Lesson 3: Reporting tool Jira

- Introduction to Jira
- Track bugs and issues
- Monitor Activity
- Report on Project Status

Lesson 4: Test Design Techniques

- Boundary Value Analysis (BVA)
- Equivalence Class Partitioning
- Decision Table based testing.
- State Transition
- Error Guessing

Lesson 5: Test Execution & Management

- Based on a risk, select a subset of test suite to be executed for this cycle.
- Assign the test cases in each test suite to testers for execution.
- Execute tests, report bugs, and capture test status continuously.
- Resolve blocking issues as they arise.
- Report status, adjust assignments, and reconsider plans and priorities daily.
- Report test cycle findings and status.

Lesson 6: Defect Management

- Bug Report
- Defect Management Process
- Discovery
- Categorization
- Resolution
- Verification
- Closure
- Reporting
- Important Defect Metrics

Lesson 7: Project Training and Assignments- Test case design and Execution

- Insurance
- E-commerce.