

Software Quality Testing Course Material

Course content is designed and will be taught in such a manner in order to make a person job ready in around 10 - 12 weeks. Classroom sessions would be highly interactive and students will be given in-depth knowledge about Software Testing techniques, tools and methodology.

Want to move into Software Testing field, try our demo class.

Post completion students will be able to crack software testing interviews confidently.

100% Job Assistance and Interview Preparation

There will be 2 demo classes.

Overview of Testing

1. What is testing and why it is imperative.
2. Organization Structure and role of a tester

Types of Testing

1. Unit Testing
2. Integration Testing
3. System Testing
4. User Acceptance Testing

Basic Overview of Software Testing

1. Project Lifecycle and its execution cycle.
2. Overview of SDLC
3. Introduction to Software Application Testing
4. Terminology used in Industry for Testing.

Software Engineering Modeling

1. Waterfall Model
2. Prototype Model
3. Spiral Model
4. Incremental Model
5. V Model

Quality Assurance Methodology and Need

1. Overview of QA and its need
2. Difference between Quality Assurance and Quality Control
3. Different types of inspection, walkthroughs and reviews.
4. QA Lifecycle
5. Quality Improvement and its advantages
6. QA Techniques and Methodology
7. Industry accepted Policies and best practices.
8. Importance and need of superior QA processes

Software Testing Techniques

1. Black Box
2. White Box
3. Grey Box

Different Types of Testing

1. Security/ Penetration Testing
 - Sql Injection
 - Buffer Overflow
 - Cross Site Scripting (XSS)
 - Parameter Tampering
2. Smoke/Sanity Testing
3. Functional Testing
 - Integration Testing
 - System Testing
 - Regression Testing
 - User Acceptance Testing (Alpha and Beta Testing)
 - Validation Testing
4. Non Functional Testing
 - Load Testing
 - Stress Testing
 - Volume Testing
 - Cross Browser Testing
 - Usability Testing
 - Recovery Testing
5. Mobile Testing (Hybrid and Native Apps)
6. Business Intelligence Testing
7. Web Services Testing
8. Web Application Testing

Agile Methodology and why it is gaining prominence

1. Introduction to Agile Methodology
2. Meetings and Processes (Sprints, User Stories, Burnt Down Chart, Scrum)
3. Scrum Process
4. Creating User Stories
5. Adding and Tracking Tasks
6. Acceptance Criteria of Task Order

Test Metrics and ALM (QC)

1. Logging Bugs in ALM
2. Writing Test Cases in ALM
3. Creating Test Plan
4. Managing Requirements
5. Test Cases Execution
6. Overview of Testing Metrics
7. Requirement Traceability Matrix
8. Defect Lifecycle and Defect Management Tools

STLC

1. Creation of Test Cases, Test Plan, Use Cases
2. Review of Test Cases
3. Defect Reporting
4. Optimization Techniques

Database Testing

1. DB Application
2. How data is stored in a database
3. Back end and Front End Testing
4. Enterprise Application Architecture
5. DB Basics
6. Relational Database concepts
7. Basic DDL, DCL, DML commands
8. Advanced DML commands
9. Restricting, Merging and Sorting
10. SQL Inbuilt Functions
11. Introduction to SQL joins and their implementation
12. Grouping data using Group by

13. Candidate key, Primary key, Foreign Key and their constraints
14. Unique and null value

QTP

1. What is Automation Testing and its advantages
2. Introduction to QTP
3. Types of Recording – Normal, Analog, Low Level
4. Object Repository concepts and its use
5. Types of Checkpoints :-
 - Standard Checkpoint
 - Text Checkpoint
 - Text Area Checkpoint
 - Database Checkpoint
 - Web Checkpoint
 - XML checkpoint
 - Accessibility Checkpoint
6. Types of Parameterization :-
 - Action Parameterization
 - Random Number Parameterization
 - Environment Variable Parameterization
 - DataTable Parameterization
7. Actions :-
 - Call to New Action
 - Call to Existing Action
 - Call to Copy Action
8. Use of Regular Expressions
9. Recovery Scenario
10. Debugging of Automated Scripts
11. Communication among different actions
12. File system
13. Batch Execution of test cases

Load Runner

1. What is performance testing and its importance
2. Introduction to Load Runner
3. LR testing process
4. Virtual User scripts
5. Working with VUser
6. Transactions
7. Parameterization

8. Check Points
9. Rendezvous Points
10. LR Controller

Selenium

1. Introduction to Selenium
2. Selenium IDE, RC and Webdriver
3. Configuring IDE
4. Recording Script
5. Running, pausing and debugging script
6. Running a script in a structured manner
7. Inserting commands in between script
8. Commands commonly used in IDE
9. Introduction to XPATHS, How to find XPATH
10. Verification Mode in IDE
11. User-extension JS in Selenium IDE
12. Using IF statements and loops in IDE
13. Echo, StoreEval and StoredVars
14. Making a function in user extension JS
15. Randomization of Test Data

ALM/QC

1. Introduction to QC
2. Site Administration
3. Test Planning
4. Test Execution
5. Requirements Management
6. Defects Management
7. Attachment Technique

Personal Development Sessions

1. How to face interview – General Questions Asked
2. Mock Interviews with personalized feedback
3. Comprehensive Interview Question Bank
4. Resume Writing
5. Soft Skills and Presentation Skills
6. Commonly asked Puzzles in Interviews

