

Manual Testing

Mode of Training: Online, Classroom, Corporate

Faculty: Mr. RAMANA

Course Duration: 40 Days



**Course
Curriculum**

High Level Course Overview:

1. Types of application:

- Web Application Testing
- Database Testing

2. Projects

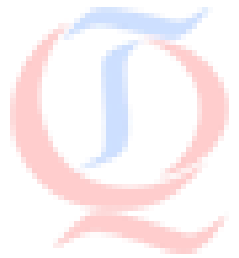
- Insurance Domain

3. Process Models

- Waterfall Model
- V-Model
- Agile Methodology

4. Test Management Tools

- ALM Octane
- Jira



5. Additional Skills

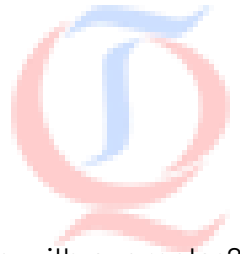
- Oracle
- Unix

6. Support from QT

- Resume Preparation
- Mock Interviews
- Interview KIT
- Placement Assistance

Section 1: Testing basics

- 1.1 Introduction to Software Testing Industry
- 1.2 What is Quality?
- 1.3 Why we need to deliver Quality Software?
- 1.4 What are the benefits of delivering high quality software to end users?
- 1.5 How to deliver Quality Software?
- 1.6 Importance of Quality Assurance team in delivering Quality Software?
- 1.7 Importance of Quality Control team (Testing) team in delivering Quality Software?
- 1.8 What is the importance of Software Testing Team?
- 1.9 Why we need to do Software Testing?
- 1.10 What are the differences between Quality Assurance and Quality Control?
- 1.11 When to start Testing?
- 1.12 What are the Testing Techniques?
 - 1.12.1 Static Testing
 - 1.12.2 Dynamic Testing
- 1.13 Explain importance of Static Testing with examples?
- 1.14 Explain importance of dynamic Testing with examples?
- 1.15 Explain differences between Static Testing and Dynamic Testing?
- 1.16 Explain differences between
 - 1.16.1 Proactive Approach vs Reactive Approach
 - 1.16.2 Verification vs. Validation
 - 1.16.3 Prevention vs. detection
- 1.17 What are the Testing Methodologies?
 - 1.17.1 White box Testing
 - 1.17.2 Black box Testing
 - 1.17.3 Grey box Testing
- 1.18 Explain differences between Black box Testing and White box Testing?



1.19 Explain below Terminologies?

1.19.1 Mistake

1.19.2 Error

1.19.3 Bug

1.19.4 Defect

1.19.5 Failure

1.20 What are the Categories of Defects?

1.21 How does Testing affect Risk?

1.22 Should Testing be done only After the Build and Execution Phases are Complete?

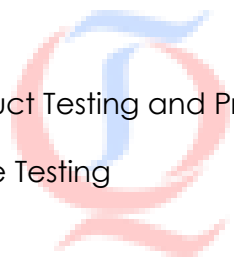
1.23 What Kind of Input Do We Need from the End User to Begin Proper Testing?

1.24 A Defect which could have been removed during the Initial Stage is removed in a Later Stage. How does this Affect Cost?

1.25 Explain Testing Principles?

1.26 Explain differences between Product Testing and Project?

1.27 Skills required to get job in software Testing



Section 2: Agile Methodology

2.1 Agile Methodology Concepts:

1. Need of Agile Methodology

1.1 What is Agile?

1.2 Why Agile is so popular?

1.3 When to go for Agile?

1.4 For what kind of Projects Agile is suitable?

1.5 For what kind of projects Agile is not suitable?

2. Agile Methodology principles

Web: www.qualitythought.in **Email:** info@qualitythought

Help : +91 9515151992, +91 9963799240, +91 7730997544

2.1 Agile Manifesto

3. Comparison of traditional Models with Agile

3.1 Compare Agile with waterfall Model

3.2 Compare Agile with V Model

4. Benefits of Agile Methodology

5. Drawbacks of Agile Methodology

6. Agile Methodology Frameworks

7. Introduction to Scrum Framework

7.1 What is scrum?

7.2 For what kind of projects scrum is suitable?

7.3 For what kind of projects scrum is not suitable?

7.4 Discussion on Sprint Planning

7.5 Discussion on story cards

8. Components of Scrum Framework

8.1 Scrum Roles

8.2 Scrum Artifacts

8.3 Scrum Events

9. Scrum Roles and Responsibilities

9.1 Product Owner

9.2 Scrum Master

9.3 Scrum Development team

10. Scrum Artifacts

10.1 Product Backlog

10.2 Sprint Backlog

10.3 Burn down Chart

11. Scrum Events

11.1 Sprint Planning Meeting

11.2 Daily Scrum Meeting

11.3 Sprint Review Meeting

11.4 Sprint Retrospective Meeting

12. Tools Usage in Agile

12.1 JIRA-Agile

13. Templates helpful for Agile Testing

13.1 Product Backlog Template

13.2 Release Plan Sample

13.3 Sprint Planning Template

13.4 Story Wall

13.5 Technical Design Template

13.6 Test Plan Sample

13.7 User Story Sample

13.8 Example Agile weekly report

13.9 Planning Poker

13.10 Impediments log



14. Agile Testing process

15. Sample Resume for Agile

2.2 Advanced Agile Methodology:

16. Estimation Techniques in Agile
17. How to identify scrum Failures
18. Kanban Framework
19. Scrum Framework vs. Kanban Framework
20. Future of Agile
21. Certification info for Agile

2.3 Interview Questions

Section 3: Testing classification



3.1. Black box testing categories

1. Functional Testing
2. Non Functional Testing
 - a. Performance testing
 - b. Security testing
 - c. Usability testing
 - d. compatibility Testing

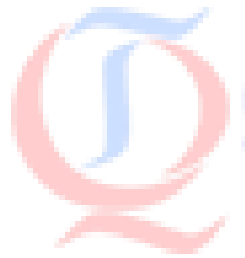
3.2 Testing Methods

- a. Smoke Testing
- b. Sanity Testing

- c. Retesting
- d. Regression Testing
- e. Exploratory testing
- f. Adhoc Testing
- g. Alpha Testing
- h. Beta Testing
- i. Mutation Testing
- j. Localization Testing
- k. Manual Testing
- l. Automation Testing

3.3. Levels of Testing

- 3.3.1 Unit Testing
- 3.3.2 Integration Testing
- 3.3.3 System Testing
- 3.3.4 Acceptance Level



Section 4: STLC

- 4.1 Test Strategy
- 4.2 Test Plan
- 4.3 RTM
- 4.4 Story Analysis (Requirement Analysis)
- 4.5 Test case Design
- 4.6 Test case Review
- 4.7 Test Execution
- 4.8 Defect Reports

4.9 Test case, Test script, Test log

4.10 Sample Test cases for GUI and Business Rules

4.11 Sample System Scenario's for System Level

4.12 Test case Design Techniques

- Equivalence Partitioning
- Boundary Value analyses
- Decision Table
- Error Guessing

4.13 Test case Review Techniques

- Peer Review,
- Formal Review,
- Walkthrough



4.14: Test Case Execution

4.14.1 Test Result

4.14.2 Updating test logs

4.14.3 Cycle Test execution criteria

4.15 Defect

4.15.1 How to raise a defect

4.15.2 Defect Tracking and Management

4.15.3 Defect Life Cycle

4.15.4 Priority VS Severity

4.15.5 Triage Team

4.15.6 Deferred defects

4.14.7 Defect Reports

Section 5: Test Management Tools

5.1 QC

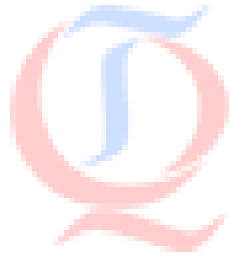
5.2 JIRA

Section 6: SDLC

SDLC Phases:

6.0 Introduction to Software Development Cycle

1. Plan
2. Analyze
3. Design
4. Development
5. Testing
6. Implementation



Different SDLC approaches

1. Sequential Approach
2. Incremental Approach
3. Iterative approach
4. Spiral Approach

6.1 Waterfall Model

6.1.3 Waterfall Model

6.1.4 Advantageous and Drawbacks of Waterfall Model

6.2 V Model

6.2.1 Verification and Validation Model

6.2.2 Compare V model and Waterfall Model

6.2.3 Advantageous and Drawbacks of V Model

6.2.4 When to Start Testing

Section 7: Advanced Testing

7.1 Entry criteria and Exit criteria

7.2 Testing Metrics

7.3 Defect Reports

7.4 Test Reports

7.5 Release Notes and Sign off report

7.6 Auditing

7.7 Estimations

7.8 Insurance and Banking Domain



Section 8: Testing Tools live project

8.1 Project 1: Insurance domain

8.2 Project 2: Banking domain

8.3 Project 3: E commerce domain

Section 9: Additional Technical courses

9.1 SQL

9.2 UNIX

Section 10: DB Testing with Sample project

Web: www.qualitythought.in **Email:** info@qualitythought

Help : +91 9515151992, +91 9963799240, +91 7730997544

Section 11: Interview questions

11.1 Testing Tools fresher interview questions

11.2 Experienced Interview questions

11.3 HR oriented interview questions

11.4 Resume preparation

Data Base Testing:

1. Introduction to database testing

2. Layers of an application

- Primary functions of a database layer

3. Why to test and What to test in a database

4. Differences between UI and Database testing

5. Skills needed to perform database testing

6. Types of Database testing

- Structural testing
- Functional testing
- Non-functional testing

7. How to test a database

8. Database/RDBMS Concepts

- Constraints
- Data Integrity
- Database Normalization
- Most popular RDBMS

9. SQL Concepts

Web: www.qualitythought.in **Email:** info@qualitythought

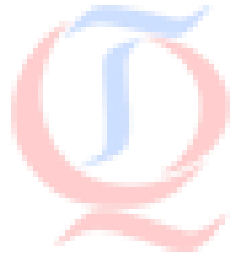
Help : +91 9515151992, +91 9963799240, +91 7730997544

- Types of SQL statements
 - Data Definition Language
 - Data Manipulation Language
 - Data Control Language
 - Transaction Control Language
- Important SQL Commands
- SQL in detail
 - DESC/SHOW
 - COUNT
 - DISTINCT
 - WHERE
 - OPERATORS IN SQL
 - WILD CARDS
 - AND & OR
 - TOP
 - ORDER BY
 - GROUP BY/HAVING
 - INSERT INTO/SELECT INTO
 - UPDATE/ALTER
 - DELETE/TRUNCATE/DROP
 - ALIASES
 - JOINS



Web: www.qualitythought.in **Email:** info@qualitythought
Help : +91 9515151992, +91 9963799240, +91 7730997544

- UNION/INTERSECT/EXCEPT
- CREATE
- DATA TYPES
- NULL VALUES
- INDEXES
- VIEWS
- DATE FUNCTIONS
- TEMPORARY TABLES
- SUB QUERIES
- SEQUENCES
- SQL INJECTION



10. Assignments

11. Interview Questions

12. Project

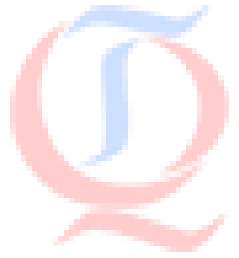
13. Resume Preparation

Live Project Essentials

- Project Name :
- Project Description:
- Client Name:
- Client Description:
- Process Followed in the Project:
- Tools Used in the Project:

Web: www.qualitythought.in **Email:** info@qualitythought
Help : +91 9515151992, +91 9963799240, +91 7730997544

- Environments in the Project:
- Team Size:
- Team Distribution:
- Roles and Responsibilities:
- Client calls
- Releases in Project
- Project Architecture
- Testing Life Cycle in the Project:
- Product Backlog
- Requirements in Requirement Management Tool
- Stories from Customer
- Success Criteria of the Story
- Story Analysis
- Query Tracker
- System Test Plan
- Requirement Traceability Matrix
- Test case Design Check list
- GUI Test cases
- System scenario's
- Test case Review checklist
- Review Process in Project
- Test case Review Tracker
- Test case Execution
- Test Log
- Defect Life Cycle in Project



- Role of Quality Center in Project
- Role of JIRA in project
- Weekly status Report
- Release Status Report
- Status Mails
- Regression Testing in Project
- Exploratory Testing in Project
- Bugs Identified in Project
- Risks Identified in Project and Contingency Plan
- Challenges Identified in Project
- Issues in Project
- Test case Design techniques involved in project
- How you executed the Test cases in Quality center
- Scenario based Questions from Project
- Practical Sessions
- Interview KIT
- Resume Preparation
- Mock Interviews

Supporting Enterprises around the Globe



Our Other Courses

DevOps & Cloud Computing

- [AWS Admin Training](#)
- [Devops Training](#)
- [Azure Admin Training](#)

Artificial Intelligence & IOT

- [Artificial Intelligence Training](#)
- [IOT Training](#)

Big data

- [Hadoop Development Training](#)
- [Spark And Scala Training](#)

Data Science & Blockchain

- [Data Science Training](#)
- [Blockchain Training](#)

QA and Testing

- [Manual Testing](#)
- [Big data Testing Training](#)
- [Selenium Training](#)
- [Appium Training](#)
- [Web services Testing Training](#)
- [Security Testing Training](#)
- [Performance Testing Training](#)
- [TOSCA Training](#)
- [ETL Testing Training](#)

RPA and Automation

- [Automation Anywhere Training](#)
- [Blueprism Training](#)
- [Uiopath Training](#)

Programming & Framework

- Core Python
- [Advanced Python Training](#)
- [Django Training](#)
- [C,C++Programming Training](#)

Others courses

- [Digital Marketing Training](#)
- [Spoken English Training](#)
- [Chat Bot Making Training](#)
- [BI Reporting Tools Training](#)
- Sail point IIQ

Established in 2010

QualityThought[®]

The Leader in Software Training



www.qualitythought.in

+91 996 379 9240

info@qualitythought.in