



SOFTWARE TESTING

***"From Manual to Automation Master the Tools
of QA Become a Certified Software Tester"***

SYLLABUS

Version: 1.0



About Us

- ✦ Apponix Academy is a leading training institute offering both online and offline courses in trending technologies like Cloud Computing, DevOps, Cyber Security, Full Stack Development, Data Science, Digital Marketing, and more.
- ✦ Established in 2013, Apponix has trained over 50,000 students across India and abroad, helping them build successful careers in the tech industry.
- ✦ With centers in Bangalore, Pune, Mumbai, Hubli, Aurangabad, Tumkur, Trichy, Gwalior, Ranchi, and more, Apponix continues to expand rapidly across the country.
- ✦ All our courses are designed to be job-oriented, practical, and aligned with real-world industry requirements.
- ✦ Our training is delivered by 100+ highly experienced corporate trainers who are experts in their respective fields.
- ✦ We offer flexible learning options, allowing students to choose between classroom sessions and live online classes.
- ✦ Apponix is ISO certified and provides globally recognized certifications from AWS, Microsoft, and Google.
- ✦ Over 3,000+ Apponix alumni are successfully placed in top MNCs with salaries above ₹15 LPA.
- ✦ Our focus is on 100% hands-on learning, project-based assignments, and real-time case studies.
- ✦ We provide complete career support including resume building, interview preparation, and placement assistance.
- ✦ With a strong presence and proven track record, Apponix Academy continues to be a trusted name in professional IT training.



COURSE KEY FEATURES



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|  Guaranteed interviews |  Mock interview sessions |
|  Placement guidance sessions |  Assured Job Placement |
|  Interview Preparation Session |  Flexible Timings (online and offline) |
|  Professional Resume building |  Resume building sessions |
|  ISTQB Certification in Software Testing |  Industry Relevant Syllabus |

IABAC Authorized Partner

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VMWARE Authorized Partner

Most Promising Training Institute

MSME Certified

Sample Certificate



SOFTWARE TESTING

1. Introduction to Software Testing

- What is Software Testing
- Why Software Testing
- Benefits of Software Testing

2. Software Development Life Cycle (SDLC)

- Phases of SDLC

Types of SDLC Models

- Waterfall Model
- Prototype Model
- Spiral Model
- V - Model
- Agile Model

3. Software Testing Methodologies

- Black Box Testing
- White Box Testing

4. Types of Testing

Functional Testing

- UI Testing
- Functional Testing
- Integration Testing
- System Testing
- Smoke Testing
- Sanity Testing
- Retesting
- Regression Testing
- Ad hoc Testing
- User Acceptance Testing

Non-Functional Testing

- Performance Testing
- Security Testing
- Usability Testing
- Compatibility Testing

5. Test Scenarios and Test Cases

- How to create a Test Scenario
- Test Scenarios Template
- Sample Example of Test Scenarios
- What is Test Case
- Test Case Template
- How to write Test Case
- Writing Test Cases based on a sample application

6. Test Case Design Techniques

- Boundary Value Analysis
- Equivalence Class Partitioning
- Decision Table Testing
- State Transition Testing
- Error Guessing

7. JIRA Tool

- What is JIRA tool
- How to create – Epic, Story, Subtask, Backlog
- Steps to Create Test Cases in JIRA using Zephyr Plugin
- How to create test cycles in JIRA
- How to change test case status in JIRA

8. Bug/Defect Management

- What is Bug/ Defect
- How to raise bug in JIRA tool
- Defect Report – Key Fields
- What is a bug/ defect lifecycle in software testing?
- Difference between Defect /Bug/Error/Failure
- Severity & Priority

9. Agile Methodologies

- Introduction to Agile
- Agile Frameworks – Scrum or Sprint, Kanban, Extreme Programming
- Agile Artifacts
- Key Roles in Agile – Product Owner, Scrum Master and Development Team
- Agile/Scrum Ceremonies - Sprint Planning, Daily Stand Up, Backlog Grooming, Sprint Review, Sprint Retrospective
- Benefits of Agile
- Agile vs Traditional (Waterfall) Model

10. Scrum Roles

- Roles and Responsibilities of Product Owner
- Roles and Responsibilities of Scrum Master
- Roles and Responsibilities of Development Team

11. JIRA Tool

- What is JIRA tool
- How to create – Epic, Story, Subtask, Backlog
- Steps to Create Test Cases in JIRA using Zephyr Plugin
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- How to change test case status in JIRA

12. Testing Roles and Responsibilities

- Software Test Engineer Responsibilities
- Sr. Software Test Engineer Responsibilities
- Test Lead Responsibilities
- Test Manager Responsibilities

13. Software Testing Life Cycle (STLC)

- Requirement Analysis
- Test Planning
- Test Case Development
- Test Environment Setup
- Test Case Execution
- Test Cycle Closure

14. Requirements Traceability Matrix

- Purpose of RTM
- Sample RTM Format

15. Entry and Exit Criteria

- What is Entry & Exit Criteria
- Why Entry & Exit Criteria Are Important

16. SQL

- Introduction to SQL
- Data Definition Language: CREATE TABLE, ALTER TABLE, DROP TABLE
- Data Manipulation Language: SELECT, INSERT, UPDATE, DELETE
- Basic SQL Commands: SELECT, FROM, WHERE, ORDER BY
- SQL Aggregate Functions: COUNT(), SUM(), AVG(), MAX(), MIN()
- Grouping Data: GROUP BY, HAVING
- Operators: AND, OR, NOT, =, >, <, >=, <=, !=, +, -, *, /
- Constraints: PRIMARY KEY, FOREIGN KEY, UNIQUE, NOT NULL
- JOINS: INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL OUTER JOIN, INNER JOIN, SELF JOIN

Application Programming Interface (API)

- What is an API?
- HTTP Methods: GET, POST, PUT, DELETE, PATCH
- HTTP Response Status Codes

17. Postman

- Installing and setting up Postman
- Creating a new request
- Sending a simple GET request
- Understanding request & response sections

Working with APIs in Postman

- GET requests with query/path params
- POST with JSON body
- PUT and DELETE requests

18. Authentication & Authorization

19. Sample Project Practice

- Writing Test Cases based on a sample application
- Executing test cases and reporting bugs

20. Interview Preparation

- Most asked Manual Testing Questions
- Mock Interview

OUR RECENT PLACEMENTS



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