



**QUILLANCE
INFOTECH PVT LTD.**

Software Testing & Quality Assurance

The Quillance Software Testing & Quality Assurance Program is a complete beginner-to-advanced training program designed to help learners master manual testing, automation testing, API testing, performance testing, and modern QA engineering practices used in software companies and IT industries worldwide.



Program Overview

What You Will Learn

- Understand software development and testing lifecycles
- Perform manual testing and bug reporting
- Learn automation testing using modern tools
- Test APIs, databases, and web applications
- Work with performance and security testing basics
- Understand Agile QA workflows and CI/CD integration

Career Opportunities

After completing this program, learners can apply for roles such as:

- Software Tester
- QA Engineer
- Automation Tester
- Manual Testing Engineer
- API Testing Associate
- Quality Assurance Analyst

Live Projects You'll Build

- **Project 1 – Website Functional Testing**

Perform manual testing and bug reporting for responsive websites.

- **Project 2 – E-Commerce Application Testing**

Test shopping cart, authentication, and checkout functionalities.

- **Project 3 – API Testing Project**

Validate backend APIs and data responses using API testing tools.

- **Project 4 – Automation Testing Framework**

Create automation scripts for web applications using Selenium.

- **Project 3 – API Testing Project**

Validate backend APIs and data responses using API testing tools.

- **Project 4 – Automation Testing Framework**

Create automation scripts for web applications using Selenium.

MODULE 1

Cybersecurity & Networking Fundamentals

TOPICS COVERED:

- Introduction to Software Testing & QA
- SDLC & STLC Fundamentals
- Types of Software Testing
- Test Cases, Test Scenarios & Bug Life Cycle
- Functional & Non-Functional Testing
- Bug Reporting & Documentation Basics

SKILLS GAINED:

- QA Fundamentals
- Testing Methodologies
- Bug Tracking Skills
- Test Documentation Understanding

PRACTICAL LEARNING:

- Create test cases and scenarios
- Report and track software bugs
- Understand QA workflows
- Perform basic application testing

MODULE 2

Manual Testing & Web Application Testing

TOPICS COVERED:

- Web Application Testing Fundamentals
- UI/UX & Cross-Browser Testing
- Functional & Regression Testing
- Smoke, Sanity & Integration Testing
- Database Testing Basics
- Agile Testing Workflow

SKILLS GAINED:

- Manual Testing Skills
- Web Application Validation
- Regression Testing Techniques
- QA Workflow Understanding

PRACTICAL LEARNING:

- Test real-world web applications
- Validate UI and user workflows
- Perform regression testing
- Analyze application behavior and defects

MODULE 3

Automation Testing & API Testing

TOPICS COVERED:

- Introduction to Automation Testing
- Selenium WebDriver Fundamentals
- Test Automation Framework Basics
- API Testing with Postman
- REST API Validation & Testing
- Test Reporting & Automation Best Practice

SKILLS GAINED:

- Automation Testing Skills
- Selenium Fundamentals
- API Testing Knowledge
- Test Script Development

PRACTICAL LEARNING:

- Create automation test scripts
- Test APIs and backend responses
- Validate application workflows automatically
- Generate testing reports and logs

Advanced Testing & Performance Testing

TOPICS COVERED:

- Performance Testing Fundamentals
- Load & Stress Testing Concepts
- JMeter Basics & Performance Analysis
- Security Testing Fundamentals
- Mobile Application Testing Basics
- CI/CD Integration for QA Workflows

PRACTICAL LEARNING:

- Analyze application performance
- Perform load testing simulations
- Work with performance testing tools
- Understand security testing workflows

PRACTICAL LEARNING:

- Performance Testing Skills
- Security Testing Basics
- QA Automation Workflow Understanding
- Enterprise Testing Knowledge

Module 5

QA Engineering, DevOps & Advanced Automation

TOPICS COVERED:

- Advanced Automation Frameworks
- CI/CD Pipelines & Automated Testing
- Version Control with Git & GitHub
- Jenkins & QA Automation Workflow
- Test Management & Reporting Tools
- Agile & Scrum QA Collaboration

PRACTICAL LEARNING:

- Integrate testing with deployment pipelines
- Work with automated QA workflows
- Optimize testing strategies
- Collaborate in Agile development teams

ADVANCED CONCEPTS INCLUDED:

- Continuous Testing Workflow
- Enterprise QA Process
- Automation Optimization Techniques
- Scalable Test Architecture
- Real-Time Reporting Systems
- Production-Level QA Practices

SKILLS GAINED:

- QA Engineering Knowledge
- DevOps & Testing Integration
- Automation Workflow Expertise
- Agile QA Collaboration Skills

Module 6

Live QA Project & Agile Workflow

TOPICS COVERED:

- Agile & Scrum Methodology
- Sprint-Based QA Workflow
- End-to-End Application Testing
- Defect Tracking & Reporting
- QA Documentation & Test Reports
- Final QA Project Presentation

SKILLS GAINED:

- Team Collaboration
- Real-World QA Experience
- Reporting & Documentation Skills
- Agile Workflow Understanding

PRACTICAL LEARNING:

- Work in QA testing teams
- Perform real-world software testing
- Manage defects and reporting
- Present QA findings professionally

Module 7

Placement & Career Preparation

TOPICS COVERED:

- Resume Building & ATS Optimization
- LinkedIn & Professional Branding
- Software Testing Interview Preparation
- Mock Interviews & HR Preparation
- Communication & Documentation Skills
- Career Guidance & Certification Support

SKILLS GAINED:

Students will be prepared for internships, QA analyst roles, automation testing positions, and software testing careers.

CAREER SUPPORT INCLUDES:

- Resume & LinkedIn Reviews
- Mock Technical Interviews
- Internship & Placement Assistance
- QA Certification Guidance
- Career Mentorship Sessions
- Professional Communication Training



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Thank You!!



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