



KIDS & TEENS FREELANCING TRAINING INSTITUTE

Software Quality Assurance (SQA) Course Outline

Module 1: What is SQA and Why It's Important

- Introduction to Software Quality Assurance and its purpose
 - Real-life example: Testing a video game before release
 - Why quality matters: fewer bugs, better user experience
 - Activity: List your favorite apps and what makes them feel “bug-free”
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Module 2: Understanding the Software Development Life Cycle (SDLC)

- What is SDLC and how SQA fits into every stage
 - Phases: Requirements, Design, Development, Testing, Deployment
 - Real-life example: Building and testing a mobile app
 - Activity: Match SQA roles with different SDLC stages
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Module 3: Types of Testing in SQA

- Manual vs. automated testing
 - Functional, regression, performance, usability, and security testing
 - Real-life example: Testing different parts of a shopping app
 - Activity: Identify types of tests needed for an app idea
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Module 4: Test Planning and Documentation

- What is a test plan, test case, and test report?
- Importance of writing clear and organized test documentation
- Real-life example: Checklist for testing an online form

- Activity: Create a simple test case for a login page
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Module 5: Introduction to Test Automation

- Benefits of automation in repetitive testing
 - Tools: Selenium, JUnit, TestNG basics
 - Real-life example: Automatically testing form submissions
 - Activity: Watch or simulate a simple automated test run
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Module 6: Bug Tracking and Reporting

- How to identify, document, and report software bugs
 - Tools: JIRA, Bugzilla, Trello
 - Real-life example: Logging bugs during a team project
 - Activity: Write and submit a mock bug report
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Module 7: SQA Tools & Real-World Practices

- Hands-on with tools: TestRail, Postman, Selenium IDE
 - Real-life SQA process in startups vs. big companies
 - Activity: Explore a test management tool and report your experience
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Module 8: SQA Careers & Certifications

- Career roles: QA Analyst, Test Engineer, Automation Tester
 - Certifications: ISTQB, CSTE, Certified Agile Tester
 - Real-life example: Journey of an SQA professional
 - Activity: Map your career path with skills and goals
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Bonus Materials

- Software testing glossary and cheat sheet
- Sample test case templates
- Bug report writing examples
- Interview questions and resume tips
- Certificate of Completion for SQA

