Manual Testing and Test Case Design Training Course

Professional Development Training Course Outline

Category	Quality Assurance and ISO standards	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Manual Testing and Test Case Design Training Course is designed to equip learners with practical skills and a strong foundation in software testing. This course emphasizes software quality assurance, bug tracking, defect reporting, test case execution, and user experience validation. With manual testing continuing to be a core skill in software development lifecycles, this training enables participants to master hands-on testing approaches while aligning with industry demands. Learners will gain insights into test design techniques, software validation processes, and agile methodologies to become confident and job-ready professionals.

In today?ÇÖs fast-paced IT industry, businesses prioritize delivering error-free, reliable, and user-friendly applications. Manual testing ensures human-centered validation that automated tools cannot always achieve. This course focuses on developing analytical thinking, defect prevention skills, and structured test design. It integrates trending practices such as risk-based testing, exploratory testing, and shift-left testing, making participants skilled in both theory and practical application. By completing this course, learners position themselves for opportunities in software testing, quality assurance, and IT project execution.

Programme Curriculum

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Course Objectives

1. Understand fundamental concepts of manual testing and software quality assurance
2. Learn to design effective test cases using structured techniques
3. Gain expertise in exploratory testing and boundary value analysis
4. Apply defect life cycle management and bug reporting skills
5. Develop knowledge of agile testing practices and sprint-based validation
6. Understand risk-based testing and prioritization of test cases
7. Learn real-world application testing through case studies
8. Apply equivalence partitioning and decision table techniques
9. Execute test cases across different software environments
10. Enhance analytical skills for root cause analysis in testing
11. Improve collaboration skills with developers and business analysts
12. Develop skills to review, maintain, and update test cases
13. Gain practical exposure to software validation in live projects

Organizational Benefits

1. Improved product quality through systematic test execution
2. Faster identification and resolution of defects
3. Enhanced collaboration between QA teams and developers
4. Reduction in project costs by early defect detection
5. Increased customer satisfaction due to reliable applications
6. Standardized test case documentation and reusability
7. Stronger compliance with quality assurance standards
8. Reduced release risks through risk-based testing
9. Higher productivity of QA teams through structured learning
10. Better adaptability to agile and modern testing practices

Target Audiences

1. Software Test Engineers
2. Quality Assurance Analysts
3. Software Developers transitioning to QA
4. IT Project Managers
5. Business Analysts
6. Computer Science Students and Graduates
7. Professionals preparing for QA certifications
8. Freshers seeking IT entry-level opportunities

Course Duration: 5 days

Course Modules

Module 1: Introduction to Manual Testing

- Overview of software testing fundamentals
- Importance of manual testing in SDLC
- Principles of software quality assurance
- Types of software testing methods
- Manual vs automation testing scope
- Case Study: Testing a simple calculator application

Module 2: Software Development Life Cycle and Testing Life Cycle

- Understanding SDLC models (Waterfall, Agile, V-Model)
- Role of testing in different SDLC models
- Software Testing Life Cycle (STLC) phases
- Entry and exit criteria in testing processes
- Importance of documentation in STLC
- Case Study: Agile sprint testing for e-commerce platform

Module 3: Test Planning and Strategy

- Components of a test plan
- Test estimation techniques
- Identifying testing objectives and scope
- Roles and responsibilities in test planning
- Risk management in testing projects
- Case Study: Test plan creation for banking software

Module 4: Test Case Design Techniques

- Equivalence partitioning
- Boundary value analysis
- Decision table testing
- State transition testing
- Error guessing techniques
- Case Study: Designing test cases for login functionality

Module 5: Test Case Execution and Reporting

- Executing manual test cases step-by-step
- Recording actual vs expected results
- Identifying, reporting, and tracking defects
- Importance of reproducibility in defect reporting
- Use of defect tracking tools (e.g., JIRA, Bugzilla)
- Case Study: Executing test cases for mobile app features

Module 6: Defect Life Cycle and Bug Tracking

- Phases of defect life cycle
- Severity vs priority of defects
- Defect prevention strategies

- Effective bug reporting techniques
- Collaboration with development teams
- Case Study: Tracking defects in HR management system

Module 7: Exploratory and Ad-Hoc Testing

- Principles of exploratory testing
- Heuristic testing techniques
- Session-based test management
- Benefits and limitations of ad-hoc testing
- Risk-based prioritization in exploratory testing
- Case Study: Exploratory testing for social media application

Module 8: Real-World Test Case Design and Execution

- Writing effective reusable test cases
- Review and maintenance of test cases
- Regression testing through manual approaches
- Cross-browser and cross-platform testing
- Validating usability and accessibility standards
- Case Study: Testing online payment gateway

Training Methodology

- Instructor-led interactive sessions with practical demonstrations
- Hands-on exercises for test case writing and execution
- Real-time case studies for better industry alignment
- Group discussions and peer reviews on defect scenarios
- Assignments and quizzes to reinforce learning
- Continuous feedback from trainers to track progress

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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