

# Overview of

## **-QA Master Program-**

### **(Certificate)**

### **Course Hours (30)**

**Medium: Sinhala**

**Duration: 3 Months**

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Elevate Your Testing Skills to the Next Level



**Developers Stack (Pvt) Ltd.**

Reg. No: PV-00301583

Hotline: (+94) 701 46 9965 | +1 276 3000 733

## 1. Manual Testing Master Program Overview

This program offers comprehensive training in manual software testing, equipping learners with essential knowledge, hands-on skills, and industry insights. Designed for both beginners and those seeking career advancement, the course emphasizes core testing concepts, agile methodologies, and practical tool usage, culminating in a real-world project. Upon completion, learners will be well-prepared for roles in quality assurance and software testing.

## 2. Duration & Commencing details

### **Training Schedule:-**

- **Day** : Monday, Friday
- **Time** : 6:00 p.m. - 8:00 p.m.
- **Course Duration** : 3 months

## 3. Learning Outcomes

By the end of this program, participants will

- Understand foundational software testing principles and types.
- Gain proficiency in manual testing processes, test case design, and execution.
- Become familiar with Agile methodologies and Jira for project management.
- Develop skills to execute test plans, report defects, and ensure software quality.
- Be prepared for interviews and roles in software testing and quality assurance.

## 4. Course Content

The course covers:-

### Introduction Session

- Why Software testing is very Important?
- Grow in Software testing And Promotions
- Why software testing as career?
- What are Roles of Software Tester?
- QA Roles and Responsibilities
- Q&A

## Module 01 – Software Testing Concepts

### **Part 01**

- What is Software?
- What is Software Testing?
- What is Software Quality?
- Project Vs Product?
- Why do we need Testing?
- Error, Bug & Failure
- Why the Software has Bugs?

### **Part 02**

- SDLC
- Waterfall Model
- Spiral Model
- V -Model
- Static Testing & Dynamic Testing
- Verification & Validation

### Part 03

- White Box Testing & Black Box Testing Methods
- Review, Walkthrough & Inspection
- QA, QC & QE
- Levels of Software Testing
  1. Unit Testing
  2. Integration Testing
  3. System Testing
  4. UAT Testing

### Part 04

- System Testing Types
- GUI Testing
- Usability Testing
- Functional Testing
- Non-Functional Testing

## **Part 05**

- Regression Testing
- Re-Testing
- Smoke Testing
- Sanity Testing
- Exploratory Testing
- Adhoc Testing
- Monkey Testing
- Positive & Negative Testing
- End-to-End Testing
- Localization & Globalization/Internationalization Testing

## **Part 06**

- Test Case Design Techniques
- Equivalence Class Partitioning
- Boundary Value Analysis (BVA)
- Decision Table
- State Transition
- Error Guessing

## **Part 07**

- Software Testing Life Cycle
- Test Planning
- Test Design/Development
- Test Execution
- Bug Reporting & Tracking
- Test Closure

## **Part 08**

- Test Plan
- Use Case Vs Test Scenario Vs Test Case
- Test Case Template
- RTM (Requirement Traceability Matrix)
- Test Environment Setup & Test Execution
- Defects/Bugs
- Contents - Defect Report
- Defect Classification (Severity & Priority)

## Part 09

- Defect/Bug Life Cycle
- Test Closure/When To Stop Testing?
- Software Testing Metrics
- QA/Testing Activities
- Principles of Software Testing

## Part 10

- Web Testing
- Mobile Testing
- Backend Testing

## Module 02 – Software Testing Project

### Part 11 – (A)

- Manual Testing Live Project
- Project Introduction
- SRS Document
- Test Plan
- Test Scenarios

### Part 11 – (B)

- Manual Testing Live Project
- Test Cases
- RTM(Requirement Traceability Matrix)

### Part 11 – (C)

- Manual Testing Live Project
- Test Cases Review
- Test Execution & Test case Report
- Bug/ Defect Reporting
- Re-Testing & Regression Testing
- Test Sign-Off

## Module 03 – Agile Testing + Jira Tool

### Part 12

- Agile Scrum Methodology
- What is Agile
- What is Scrum / Scrum Team
- What is User Story/Epic/Product Backlog/Sprint
- What is the Story Points
- What is Definition of Done and Definition of Ready
- Different Sprint Activities
- Sprint Planning / Backlog Refinement/ Sprint Review / Sprint Retrospective

### Part 13

- Jira Tool
- Agile Project Management
- How to install and configure JIRA tool
- How to create an EPIC/ User stories in Jira
- Creating Sprints in Jira
- Sprint life cycle in Jira
- Backlogs in Jira
- Creating bugs in Jira
- How to write test cases in Jira
- Creating test cycles and execute test cases in Jira

## Module 04 – Interview Preparation

- Get Ready For Your Next Job

5. Target Audience

- **Beginners** in software testing
- **Aspiring software testers and quality assurance professionals**
- **Junior software testers** looking to advance their skills
- **Software developers** seeking knowledge in testing

6. Prerequisites

- Basic understanding of computers and software applications
- No prior testing experience is required, but familiarity with software development concepts is beneficial

7. Teaching Methodology

- **Lectures & Presentations** -> Theory sessions covering core topics
- **Hands-on Practice** -> Real-world scenarios, live projects, and Jira tool usage
- **Group Discussions** -> Collaborative learning through peer interactions
- **Q&A Sessions** -> Opportunity to clarify doubts and enhance understanding

## 8. Industry Partnerships

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## 9. Assessment Methods

- **Assignments** -> Weekly tasks to reinforce understanding
- **Quizzes** -> Periodic quizzes on covered topics
- **Final Project** -> A live testing project with comprehensive test planning, execution, and reporting

## 10. Alumni Network

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## 11. Feedback Mechanism

Participants can provide feedback through

- **End-of-course surveys** for continuous improvement
- **Session-wise feedback** to adjust real-time course delivery
- **One-on-one discussions** for personalized feedback

## 12. FAQs Section

**Q:** Do I need prior testing experience?

**A:** No, this course is beginner-friendly.

**Q:** What tools are covered in the program?

**A:** We cover the Jira tool and relevant testing management tools.

**Q:** Will I receive a certificate upon completing the course?

**A:** Yes, a certificate of completion is provided to all students who successfully finish the program requirements.

**Q:** Is this program suitable for complete beginners in software testing?

**A:** Absolutely! This program is designed for beginners as well as those with some experience who want to strengthen their knowledge.

**Q:** What type of support is available if I have questions outside of class hours?

**A:** You'll have access to an online learning management system (LMS) where you can ask questions, review recorded sessions, and access resources.

## 13. Contact Information

**For inquiries, please contact us at:**

Phone: (+94) 701 46 9965 | +1 276 3000 733

Email: [info@developersstack.com](mailto:info@developersstack.com)

Website: <http://www.developersstack.com>

## 14. Curriculum Overview

- Module 1:** Software Testing Concepts
- Module 2:** Software Testing Project
- Module 3:** Agile Testing + Jira Tool
- Module 4:** Interview Preparation

## 15. Program Goal

To empower individuals with the practical skills and theoretical foundation needed for a successful career in software testing.

## 16. Program Vision

To become a leading training provider in quality assurance and manual testing, creating competent professionals who enhance software quality.

## 17. This course includes

- Certificate: Available
- Training Program: Available (Only for Selected Students)
- Transcript: Available
- LMS Access: Available

## 18. Payment Details

The total fee for the QA Master Program is LKR 10,000.00

- **Total Amount:** LKR 10,000
  - One-Time Payment  
**Total Amount:** LKR 9,000  
**Due Date:** Upon registration
  - Two Instalments  
**First Payment:** LKR 5,000 upon registration  
**Second Payment:** LKR 5,000 due one month after the first payment



## We're here to empower you to unlock new possibilities and succeed in your career

At Developers Stack, we're here to champion your journey towards success. Our mission is to empower you to unlock new possibilities and excel in your career. As the CEO, I am deeply committed to providing you with the tools, resources, and unwavering support needed to thrive in today's dynamic tech landscape.

Your ambitions and aspirations drive everything we do. Whether you're venturing into a new realm of coding, expanding your skill set, or exploring exciting opportunities, rest assured, we stand by you as your dedicated ally and guide.

Together, let's transform your dreams into tangible achievements and sculpt a future brimming with promise. Welcome to Developers Stack, where your triumphs are our ultimate goal.



Gupipi  
Piyumika

CEO of Developers Stack