



**Information
Technology
Institute**

PROFESSIONAL TRAINING PROGRAM 2021/2022

SOFTWARE TESTING & QUALITY ASSURANCE Track Overview

**People Develop Countries...
We Develop People**

Track Name



DESCRIPTION

ITI – (Software Testing & QA) Specialization - is a product based program that will empower you to learn how to test different types of applications (web, desktop, mobile, embedded, API) more over understand and apply software quality assurance common processes (CMMI, ISO).....



WHO MAY APPLY

All University Graduates with prerequisites of grad good



TRACK DURATION

1500 Hours about 9 months (learning and project).



DELIVERY APPROACH

Blended between Self-paced, Synchronous Learning and Guided Practices with a Project Based Focused Journey.

BEFORE YOU APPLY

Candidates will have to complete the following prerequisite courses to join our program: C and C++ fundamentals courses at <https://www.sololearn.com/Courses/>

Web Fundamentals at <http://www.maharatech.gov.eg>

Introduction to software testing concepts and techniques at

<https://maharatech.gov.eg/course/view.php?id=2&lang=en>

Track Name



GRADUATE PROFILES

- Software Development Engineer In Test (SDET)
- SW Quality Control Engineer.
- Mobile Testing Engineer
- Performance Testing Engineer.
- Security Testing Engineer
- Embedded Testing Engineer
- Test Automation Engineer



REQUIRED TOOLS

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TRACK PRACTICES

Candidates may work together in one of the following Suggested Projects:

- Web
- Desktop
- Mobile
- Embedded

Track Name



OVERALL LEARNING JOURNEY OUTLINE

Fundamental Courses

- Operating Systems Fundamentals
- Database Fundamentals
- Computer Networks Fundamentals
- Introduction to Programming
- Object-Oriented Programming Concepts
- Linux Operating System
- Introduction to Software Engineering

Core Courses

- Introduction to software testing concepts & Techniques
- ISTQB Foundation Software Testing Certification
- Effective Test case and bug report writing techniques
- Testing Analysis and Automation
- HTML5 & CSS3
- Developing & Testing JavaScript
- Developing & Testing XML Technologies
- Introduction to Python for SW testers
- UML for SW Testers
- Agile Software Development Methodologies
- Java Programming
- Developing & Testing .Net Applications
- Developing & Testing Database using Sql Server
- ISTQB Foundation Agile Tester Extension Certification
- Testing Workshops
- API Development & Testing
- Mobile Applications Testing
- Security Testing
- Web Performance Testing
- BI Development & Testing
- Devops Testing
- Introduction To embedded systems for testers
- Testing Embedded Software
- AI Implementations in software testing

Soft Skills Courses

- Business Communication
- Advanced Presentation Skills
- Interviewing Skills
- Workplace Professionalism

OTHER USEFUL INFORMATION

(Collaborative activities, Outstanding facilities, Remarkable Opportunities, Talents' Innovation, Industry partners ...etc.)