Software Testing & Quality Assurance

People Develop Countries… We Develop P.E.O.P.L.E.

Program Admission Arrangement

Who May Apply?

- **All University Graduates especially Computer Science and Engineering Graduates and Applicants willing to expand their skills and knowledge.**

Prerequisites

Candidates will have to complete the following prerequisite courses to join our program:

- **An Introduction to Programming** **https://www.coursera.org/learn/intro-programming**
- **Computer Programming Tutorial** **https://www.tutorialspoint.com/computer_programming/index.htm**
- **Intro to SQL:** **https://www.w3schools.com/sql/default.asp**
- **Introduction to software testing** **https://maharatech.gov.eg/course/view.php?id=2**
- **Introduction to ISTQB** **https://maharatech.gov.eg/course/view.php?id=34**
- **Testcase Writing And Bug reporting** **https://maharatech.gov.eg/course/view.php?id=4**
- **Introduction to web fundamentals** **https://maharatech.gov.eg/course/view.php?id=36**
- **ITI values that could be found here:** **https://iti.gov.eg/about-us**

Selection Process

- **Phase 1: IQ and Problem-Solving exam | English exam**
- **Phase 2: Technical Exam**
  Computer-based technical exam in the field of your interest
- **Phase 3: Technical Interview**
  Those applicants would be discussing with the interviewing panel their pre-work -"Before You Apply"- in a one-to-one interview
- **Phase 4: Interpersonal Skills Interview**
  Those how pass phase 3 will be promoted to this interview

Delivery Approach

- 20% Self-paced | 40% Online | 40% Guided Practices
- Project Based Focused Journey
- Your Mentor supports throughout all the learning journey

Students' Deliverables

- Each student must deliver at lest ONE **freelancing** job and an international **certficate** based on his track

Software Testing & Quality Assurance Track

1 **Programs Offered**

- ☑ **Professional Training Program:**
  - Software Testing & Quality Assurance
- ☑ **Intensive Code Camps:**
  - Software Testing Foundations
- ☑ **Undergrads Summer Camps**
- ☑ **Tech Ambassador**
- ☑ **Online Services**
  - ☑ **(MaharaTech, ITI Tech Leap, Coursera**)

2 **Industry/Academy Stakeholders**

- **ISTQB International Board**
- **Test Automation University**

3 **Targeted Outcome**

- **Employability**
  - o Vodafone Egypt
  - o VOIS
  - o Orange Egypt
  - o InstaBug
  - o Etisalat Misr
  - o Expleo
  - o Swift Act
  - o Basata
  - o Fawry
  - o Aman
  - o Valeo
  - o E-tax

4 **Certifications**

- **ISTQB-CTFL**
- **ISTQB-Agile**
- **ISTQB-Mobile**
- **ISTQB-Performance**
- **ISTQB-AI**
- **ISTQB-Automotive**
- **ISTQB-Security**

5 **Graduates Job Profiles**

- **Software Development Engineer In Test (SDET)**
- **Mobile Testing Engineer**
- **Performance Testing Engineer.**
- **Security Testing Engineer**
- **AI Testing Engineer**
- **API Test Engineer**
- **Automotive Testing Engineer**

All Software Companies either, National, Multinationals in different business domains
(Fin-tech, Education, Telecom, Medical..Etc.) are all interested in all our graduates' profiles

Software Testing & Quality Assurance Track

1100 Hours

Program Content Structure

Fundamental courses

- **Track Orientation Workshop**
- Introduction To Programing
- Object-Oriented Programming Concepts
- Database Fundamentals
- Data Structures and Algorithms
- Operating Systems Fundamentals
- Computer Networks Fundamentals
- Agile Software Development Methodologies
- Linux Operating System
- HTML5 &CSS
- Java Programming
- Python for SW Testers

Life Skills Courses

- Communication Essentials for Professionals
- High Impact Presentations
- Job Seeking Skills
- Professional Demeanor (Workshop)
- Best Practices For Remote Working (Workshop)
- Progressive Teamwork and Leadership Skills (Workshop)

Graduates Job Profiles

- Software Development Engineer In Test (SDET)
- Mobile Test Engineer
- Performance Test Engineer.
- Security Test Engineer
- API Test Engineer
- AI Testing Engineer
- Automotive Testing Engineer

Core Testing Courses

- **Manual Testing Courses**
  - software Testing concepts & Techniques
  - ISTQB Foundation Software Testing Certification
  - Effective Test case and bug report writing techniques
- **Web Application Dev &Testing Courses**
  - Developing & Testing JavaScript
  - Developing & Testing XML Technologies
  - Developing & Testing .Net Applications
  - Developing &Testing Database using Sql Server
- **Test Automation Courses**
  - Testing Analysis and Automation
  - Web Performance Testing &ISTQB
  - Mobile Applications Dev &Testing
  - ISTQB Mobile Applications Testing
  - API Development & Testing
  - Dev-ops Testing
  - Security testing
  - ISTQB Foundation Agile Tester Extension Certification
- **Software Quality Assurance & Process Improvements**
  - Software Quality assurance essentials
  - Software Configuration management
- **Embedded& Automotive Testing**
  - Introduction to embedded systems
  - Testing Embedded software systems
- **AI in Software Testing**
  - Introduction to AI in Software testing-ISTQB
  - Automotive ISTQB
  - Testing workshops on different apps
  - Problem Solving
- **Projects**
  - **R&D with papers and prototypes with universities in the domains of**
    - AI in testing
    - Automotive testing
    - Automation Testing

Soft Skills 12

Fundamental courses 18%

Core courses 70%

ISTQB®
International Software
Testing Qualifications Board