



Enterprise and Web Applications Development (Java)

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

Program Admission Arrangements

Who May Apply?

- Graduates of:
 - All University Graduates may apply

Prerequisites

These topics will be discussed with you in the interviews (Resources applicants can visit or study before interview)

- Studying this course at maharatech “Mastering Object-Oriented Programming (OOP) Using C++”
<https://maharatech.gov.eg/course/view.php?id=2206>
- or any other resources that you prefer
- ITI values that could be found here: [http:// www.iti.gov.eg/Site/AboutUs](http://www.iti.gov.eg/Site/AboutUs)

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 who pass phase 3 will be promoted to this interview

Delivery Approach

- 75% face to face Learning| 25 % Online
- Common Hardware
- Common Software

Students' Deliverables

- Each student must deliver at least ONE **freelancing** job and/or an international **certificate** based on his track



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1 Programs Offered

- ☑ **Professional Training Program:**
 - Enterprise and Web Applications Development (Java)
- ☑ **Online Services (MaharaTech, ITI Tech Leap)**

2 Industry/Academy Stakeholders

- VMWare IT Academy
- RedHat Academy
- Oracle

3 Targeted Outcome

- **Employability**
 - Vodafone Egypt
 - VOIS
 - Orange Egypt
 - OBS
 - Etisalat Misr
 - NBE
 - AlexBank
 - AAIB
 - Fawry
 - Aman
 - Valeo
 - CyShield
 - ZINAD

4 Certifications

- Spring Certified Professional.
- Oracle Certified Professional: Java SE 11 Developer

5 Graduates Job Profiles

Enterprise and Web Applications Developer

This job profile demand Java developers, who are capable of using different JEE technologies in diverse application domains to get the skills of how to build database-driven custom web applications and enterprise applications.



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900 Hours

Program Content Structure

Fundamental courses

- Track Orientation Workshop
- Introduction to Object-Oriented Programming Concepts
- Database Fundamentals
- Data Structures and Algorithms
- Operating Systems Fundamentals
- Introduction to Computer Networks & Cyber Security
- XML Fundamentals
- Introduction to Oracle SQL and PL/SQL
- Introduction to Software Engineering
- Agile Software Development Methodologies
- Object-Oriented Analysis & Design using UML
- Java Design Principles and Patterns
- Introduction to Testing and automated unit test
- Versioning Control Systems
- Project Configuration Management
- Freelancing Basics

Soft Skills Courses

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

Core Courses

Core Java Programming
GUI using Java Programming
Advanced GUI using JavaFX
Database Programming using Java Programming
Concurrency Programming using Java Programming
I/O and Network Programming using Java Programming
Secure Applications using Java Programming
API for XML Processing Using Java
Introduction to ORM (Object-Relational Mapping)
Developing Dynamic Web Applications using Servlets and JSP
Web and Enterprise Applications Development Concepts
HTML5
CSS3
Introduction to java script
Developing a Web Application Using Angular
Asynchronous Web Development
Java API for Big Web Service
Java API for Restful Web Service
Spring Framework Core
Spring Framework Data Access
Spring Framework security
Spring Framework Aspect Oriented Programming
Spring Framework Web MVC
Spring Framework Remote Services
Spring Framework Boot

