



**Information
Technology
Institute**

PROFESSIONAL TRAINING PROGRAM 2021/2022

CLOUD ARCHITECTURE

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

Cloud Architecture



DESCRIPTION

ITI – (Cloud Architecture) Specialization - is a program that will empower you to learn

- . How to Implement Private Cloud to Provide IaaS (Infrastructure as a service)
- . How to use Public Cloud (AWS, Microsoft Azure)
- . Infrastructure as a Code (IaC) In DevOps



WHO MAY APPLY

Graduates of:

- Computer Engineering,
- Communications Engineering
- Computer Science



TRACK DURATION

..... 102 Credit Hours.... Hours about 9 months



DELIVERY APPROACH

Blended between Self-paced, Synchronous Learning

BEFORE YOU APPLY

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

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

- Introduction to computer networks
<https://maharatech.gov.eg/course/view.php?id=37>
- Introduction to cybersecurity could be found at MaharaTech:
<https://maharatech.gov.eg/course/view.php?id=37> or 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)

Cloud Architecture



GRADUATE PROFILES

- Cloud Operation Engineer.
- Cloud Solution Architect.
- Cloud Administrator



REQUIRED TOOLS

Hardware Specs:
Processor: Intel Core i7
Ram: 16G
Hard Disk: 1TB



TRACK PRACTICES

Cloud Architecture



OVERALL LEARNING JOURNEY OUTLINE

Fundamental Courses

- Operating Systems Fundamentals
- Database Fundamentals
- Cisco Internetworking
- Cisco Network Associate
- Microsoft Windows Active Directory
- Microsoft Windows Infrastructure
- Red Hat System Administration I
- Red Hat System Administration II
- Red Hat System Administration III

Core Courses

- Cloud Computing and Virtualization Foundations
- Information Storage and Management
- Introduction to Big Data and Hadoop
- Enterprise Virtualization using Microsoft Hyper-V
- Data Center Technologies
- OpenStack Deployment and Operation I
- VMware vSphere: Install, Configure and Manage
- VMware NSX Network Virtualization
- Veeam Backup and Replication
- Docker Fundamentals
- Citrix Xen server and Xen desktop
- AWS SysOps Administration
- Devops Fundamentals

Soft Skills Courses

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

OTHER USEFUL INFORMATION

Certifications:

- VMware Datacenter Virtualization (DCV)
- Information Storage and Management (ISMv4)
- Redhat Certified System Administrator (RHCSA)
- Microsoft Azure Fundamentals
- AWS Solution Architect Associate