



**Information
Technology
Institute**

PROFESSIONAL TRAINING PROGRAM 2021/2022

SYSTEM ADMINISTRATION Track Overview

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

System Administration



DESCRIPTION

ITI – (System Administration) Specialization - aims to graduate top level systems administrators that have good knowledge of different systems, network , database administration and aware of the new trends in this aspect



WHO MAY APPLY

All University Graduates with prerequisites of Good as Minimum Grade



TRACK DURATION

864 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:

Network fundamentals can be found at:

- <https://maharatech.gov.eg/>

Linux fundamentals can be found at:

- <https://training.linuxfoundation.org/resources/free-courses/introduction-to-linux/>

Programming Fundamentals at: <https://ocw.mit.edu/courses/intro-programming/> or other resources

ITI values that could be found here: [http:// www.iti.gov.eg/Site/AboutUs](http://www.iti.gov.eg/Site/AboutUs)

System Administration



GRADUATE PROFILES

System Engineer (Linux, Windows, Unix)
Network Engineer
Database Administrator
DevOps Engineer



REQUIRED TOOLS

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TRACK PRACTICES

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

- System Engineer (Linux, Windows, Unix)
Network Engineer
- Database Administrator
DevOps Engineer

System Administration



OVERALL LEARNING JOURNEY OUTLINE

Fundamental Courses

- Agile Software Development Methodologies
- Data Structure and Algorithms
- Database Fundamentals
- Introduction to Programming
- Operating System Fundamentals
- ITIL Foundation
- Object Oriented Programming using Python
- Python Programming Introduction
- Version Control Systems
- Web Server Administration

Core Courses

- Introduction to Oracle SQL and PL/SQL
- Oracle DBA I
- Oracle DBA II
- Bash Shell Script
- Red Hat High Availability Clustering
- Information Storage and Management
- Microsoft Windows Infrastructure
- Oracle Solaris Administration
- Red Hat System Administration I
- Red Hat System Administration II
- Red Hat System Administration III
- Systems Operations on AWS
- Virtualization Technology
- Ansible
- Container Engine
- Continuous Deployment and Integration
- Introduction to Kubernetes

System Administration



OVERALL LEARNING JOURNEY OUTLINE

Core Courses (cont.)

- Advanced Routing and Switching Protocols
- Cisco Internetworking
- Cisco Network Associate
- Network Security Fundamentals

Soft Skills Courses

- Freelancing Skills
- Communications Skills
- Presentation Skills
- Interviewing and CV Writing Skills