



**Information
Technology
Institute**

**PROFESSIONAL TRAINING PROGRAM
2021/2022**

**CYBER SECURITY
Track Overview**

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

Cyber Security



DESCRIPTION

ITI – (Cyber Security) Specialization - is a program that will empower you to apply security concepts in designing and implementing secure networks and information. you will be able to identify system vulnerabilities and recommend security solutions to address these vulnerabilities



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)

Cyber Security



GRADUATE PROFILES

- Cyber Security Engineer
- Information Security Officer
- Incident Handler



REQUIRED TOOLS

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



TRACK PRACTICES

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

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Cyber Security



OVERALL LEARNING JOURNEY OUTLINE

Fundamental Courses

- Operating Systems Fundamentals
- Introduction To Programming
- Client-Side Technologies 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

- Introduction to PHP Programming
- Introduction to Python Programming
- Ethical Hacking and Security Assessment
- Malware Analysis and Reverse Engineering
- Firewalls Technologies
- Introduction to Virtual Private Networks
- Windows Security
- Introduction to bug hunting
- Digital Forensics & Incident Response (DFIR)
- Threat Intelligence & Threat Hunting
- Web Penetration Testing
- Mobile Penetration Testing
- Metasploit Essentials
- Risk Assessment and Compliance
- Incident Handling
- ITIL Foundation

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

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