



Project No.
8019EC

Date
2025

Doc. No.
EOTSS8019

Serial No
8019/2025

Rev.
00

Proj. dep.
Electronic

EOTSS Doc. CODE :

EOTSS/Electronic/8019-EC/2025



المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

Cybersecurity for IT Professionals



Cybersecurity for IT Professionals

Code: 8019-EC



Course Duration: 40 hours – Spread across 5 weeks



Presented by: Engineering Office for Technology and Software Services Academy



Target Audience

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

Tel: 01102060500-01144470856



الفرع الرئيسي : عمارات المتحدة – عمارة عين شمس – امام البنك
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المعهد الهندسي لخدمات التكنولوجيا و البرمجيات

Engineering office for Technology and Software Services



IT Professionals

Individuals responsible for managing and securing IT environments in organizations.



System Administrators

Professionals who manage and maintain computer systems and networks.



Network Engineers

Engineers focused on configuring and securing network infrastructure.



Security Enthusiasts

Anyone interested in learning about cybersecurity principles and practices.



What Will I Learn?



Cybersecurity Fundamentals

Understand the basics of cybersecurity and its importance, including the CIA triad (Confidentiality, Integrity, Availability).



Network Security Techniques

Learn to configure firewalls, VPNs, and Intrusion Detection/Prevention Systems (IDS/IPS) to secure networks.



Threat Detection & Incident Response

Master tools and techniques for detecting cyber threats, responding to incidents, and conducting forensic analysis.



Data Protection & Compliance

Understand data protection laws and regulations, and learn best practices for data encryption, backup, and disaster recovery.



Advanced Cybersecurity Topics

Explore advanced topics like ethical hacking, penetration testing, threat intelligence, and combating advanced persistent threats (APTs).



Incident Recovery and Forensics

Learn how to recover from security incidents and conduct vulnerability assessments and penetration tests.

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Course Modules



Module 1: Introduction to Cybersecurity (8 hours)

- Basics of cybersecurity
- Common types of cyber threats (malware, phishing, etc.)
- Cybersecurity principles: CIA triad
- Understanding encryption and firewalls



Module 2: Network Security (8 hours)

- Protecting against DDoS and Man-in-the-middle attacks
- Setting up firewalls and VPNs
- Configuring IDS/IPS systems
- Secure network protocols (SSH, SSL/TLS, etc.)



Module 3: Threat Detection and Incident Response (8 hours)

- Tools and techniques for cyber threat detection
- Incident response strategies: detection, containment, recovery
- Forensic analysis and vulnerability assessments
- Penetration testing



Module 4: Data Protection and Compliance (8 hours)

- Data protection laws and regulations (GDPR, CCPA, etc.)
- Best practices for data encryption and secure storage
- Backup and disaster recovery planning
- Secure access controls and identity management



Module 5: Advanced Cybersecurity Topics (8 hours)

- Security operations centers (SOC) and monitoring
- Ethical hacking and penetration testing
- Threat intelligence and analysis
- Mitigating advanced persistent threats (APTs)

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Materials Included



Printable Course Notes & Cheat Sheets

Comprehensive study guides and quick reference sheets.



Recorded Demonstrations & Practice Labs

Access to video tutorials and practical lab sessions.



Configuration Scripts & Templates

Ready-to-use scripts for configuring network and security systems.



Access to Virtual Lab Environment

Cloud-based labs to practice configuring and securing environments.



Weekly Quizzes and Final Assessment

Track your progress with quizzes and assessments throughout the course.



Certificate of Completion

Earn a certificate upon successful course completion.



Requirements / Instructions



Personal Laptop or PC

A device with at least 8GB RAM and a stable internet connection.



Basic Knowledge of Computer Networks

Some familiarity with networking concepts such as IP addressing and routers.



Motivation to Learn

A keen interest in mastering cybersecurity and securing IT environments.



Optional Tools

Tools like VirtualBox or VMware for local setups, but virtual labs will be provided.

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