



Project No.  
8018EC

Date  
2025

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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

## IT Infrastructure and Network Management



### IT Infrastructure and Network Management

**Course Duration:** 40 hours – Spread across 5 weeks

#### Target Audience

- Network Administrators
- IT Support Engineers
- Enterprise Infrastructure Teams
- Anyone managing large-scale IT networks

#### Course Modules

##### Module 1: Introduction to IT Infrastructure (8 hours)

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

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**Engineering office for Technology and Software Services**

- Overview of organizational IT infrastructure
- Servers, storage systems, and networking basics
- Role of IT in business operations
- Intro to virtualization and cloud technologies

### **Module 2: Network Fundamentals and Design (8 hours)**

- IP addressing, routing, and switching essentials
- LAN/WAN architecture and configuration
- Network topologies and use-cases
- Key network devices and communication protocols

### **Module 3: Server Management and Maintenance (8 hours)**

- Managing Windows & Linux servers
- Storage configurations & backup strategies
- Server virtualization with VMware/Hyper-V
- Monitoring server health and performance

### **Module 4: Network Security and Troubleshooting (8 hours)**

- Firewalls, VPNs, IDS/IPS concepts
- Best practices in network security
- Diagnosing latency and bandwidth issues
- Hands-on with network monitoring tools

### **Module 5: Cloud Computing and Virtualization (8 hours)**

- Cloud models: IaaS, PaaS, SaaS
- Deployment types: public, private, hybrid
- Virtualization platforms: VMware, Hyper-V, KVM
- Connecting on-premises systems to cloud

Would you like me to generate the matching sections:

- ☒ What Will I Learn?
- ☐ Materials Included
- ☐ Requirements / Instructions

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-  Certificate & Assessment Info

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