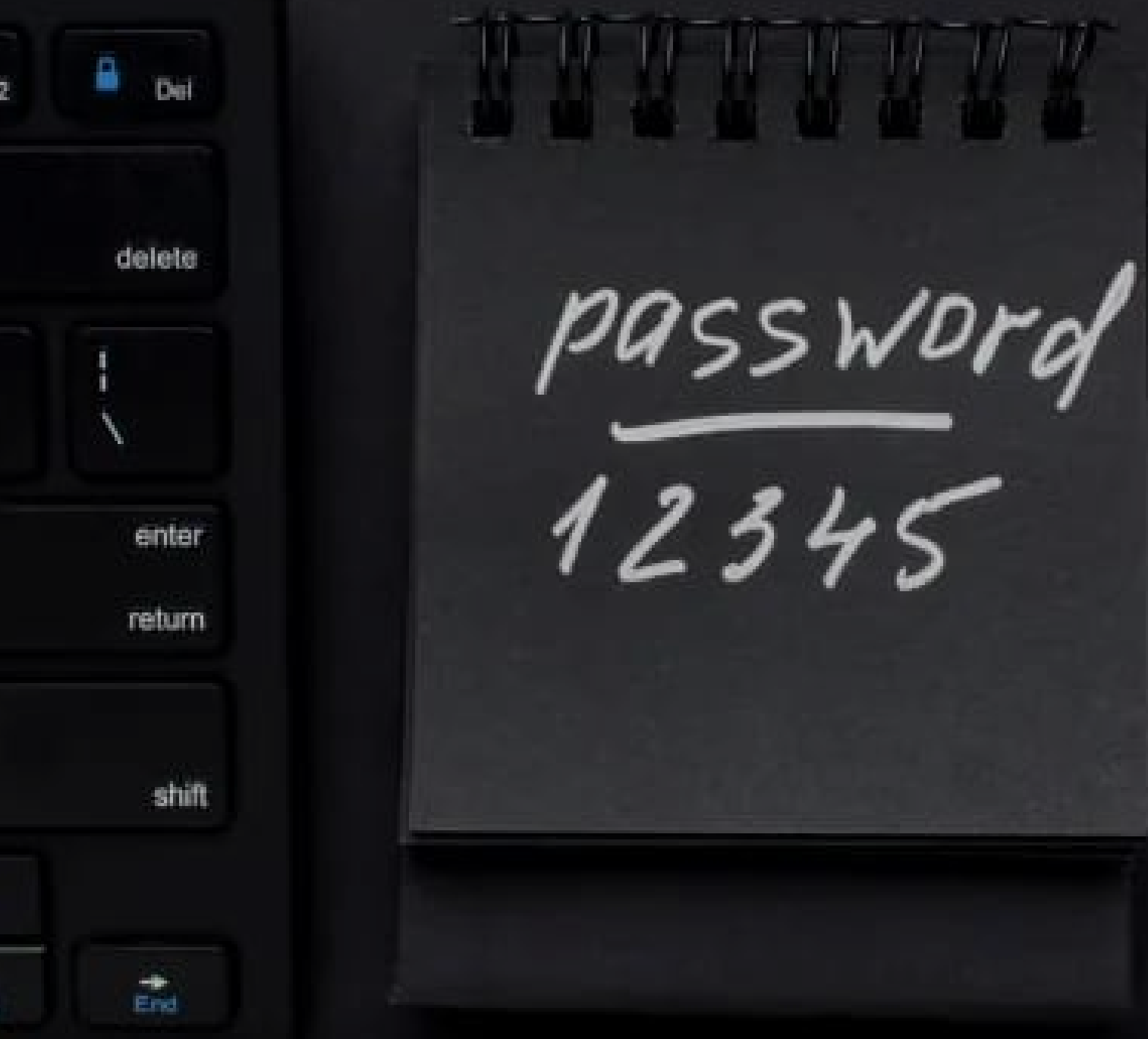




IT MANAGEMENT AND CYBER SECURITY | IMCS-016

Network Security Fundamentals

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Course content

Why Attend

Networks connect every part of the modern organisation and remain a primary target for attackers. Understanding how to secure networks is essential for IT and security professionals.

This Aractech course covers network architecture and protocols, threats, firewalls and segmentation, secure remote access, wireless security, intrusion detection and prevention, network monitoring and secure configuration. Participants design a secure network architecture for a case organisation.

Course Methodology

- Technical presentations
- Architecture design workshop
- Demonstrations
- Case studies
- Configuration reviews

Course Objectives

- Explain network architecture and protocols
- Identify network threats and attacks
- Design segmentation and firewall policies
- Secure remote access and wireless networks
- Use intrusion detection and network monitoring
- Apply secure configuration and hardening

Target Audience

- Network administrators
- IT security staff

Course content

- System engineers
- IT managers

Course outline

Detailed course outline

Day-by-day outline for Network Security Fundamentals.

Day 1 - Network Foundations

- 09:00-09:39 | Network models and protocols
- 09:39-10:18 | Addressing
- 10:18-10:57 | Common services
- 10:57-11:00 | Network devices
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Network devices (continued)
- 12:05-12:43 | Security principles
- 12:43-14:00 | Exercise: Network diagram review

Day 2 - Threats and Attacks

- 09:00-09:34 | Reconnaissance
- 09:34-10:08 | Spoofing and interception
- 10:08-10:42 | Denial of service
- 10:42-11:00 | Lateral movement
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Lateral movement (continued)
- 11:46-12:53 | Case study: Network breach
- 12:53-14:00 | Exercise: Threat identification

Course outline

Detailed course outline

Day-by-day outline for Network Security Fundamentals.

Day 3 - Perimeter and Segmentation

- 09:00-09:34 | Firewalls
- 09:34-10:08 | Segmentation
- 10:08-10:42 | DMZs
- 10:42-11:00 | Network access control
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Network access control (continued)
- 11:46-12:53 | Policy design
- 12:53-14:00 | Workshop: Segmentation design

Day 4 - Remote and Wireless Security

- 09:00-09:39 | VPNs
- 09:39-10:18 | Secure access
- 10:18-10:57 | Wireless security
- 10:57-11:00 | Guest networks
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Guest networks (continued)
- 12:05-12:43 | Monitoring
- 12:43-14:00 | Exercise: Remote access design

Course outline

Detailed course outline

Day-by-day outline for Network Security Fundamentals.

Day 5 - Monitoring and Hardening

- 09:00-09:45 | IDS and IPS
- 09:45-10:30 | Network monitoring
- 10:30-11:00 | Configuration hardening
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Configuration hardening (continued)
- 11:45-12:30 | Change control
- 12:30-13:15 | Audits
- 13:15-14:00 | Capstone: Secure network architecture

Seminar dates

Available seminar dates

Live dates and pricing for Network Security Fundamentals generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Istanbul	Classroom	€1,978
7 - 11 December 2026	London	Classroom	€2,315
21 - 25 December 2026	Barcelona	Classroom	€2,815
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Amsterdam	Classroom	€2,830
15 - 19 March 2027	Cape Town	Classroom	€1,625
19 - 23 April 2027	Barcelona	Classroom	€2,815
17 - 21 May 2027	London	Classroom	€2,315
21 - 25 June 2027	Munich	Classroom	€3,225
19 - 23 July 2027	Madrid	Classroom	€3,400

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