MERCURY

IT Security & Networking

27 - 31 May 2024
Vienna (Austria)

IT Security & Networking

Ref.: 15437_312074 **Date:** 27 - 31 May 2024 **Location:** Vienna (Austria) **Fees:** 4900 **Euro**

Introduction:

IT Security & Networking provides comprehensive knowledge and practical skills to understand, implement, and maintain secure network infrastructures. Participants will explore various aspects of cybersecurity, network protocols, encryption techniques, and best practices to safeguard critical data and protect against cyber threats. The course will also cover the fundamentals of network design, administration, and troubleshooting.

Targeted Groups:

- IT professionals.
- network administrators.
- security analysts.
- and anyone interested in understanding IT security and networking concepts.

Course Objectives:
At the end of this course the participants will be able to:

- Comprehend the fundamentals of IT security and networking.
- Implement security measures to protect networks and data.
- Identify and mitigate common cybersecurity threats.
- Understand the principles of secure network design and administration.
- Monitor and respond to security incidents effectively.

Targeted Competencies:

- Introduction to IT Security.
- Network Fundamentals.
- Network Security.
- Cybersecurity Measures.
- Network Administration and Monitoring.

Course Content:
Unit 1: Introduction to IT Security:

- Understanding the importance of IT security in the modern digital landscape
- Overview of different types of cyber threats malware, phishing, DDoS, etc.
- Introduction to cybersecurity frameworks and standards NIST, ISO 27001, etc.
- Risk assessment and threat modeling techniques
- Basics of cryptography and encryption

Unit 2: Network Fundamentals:

- Overview of computer networks LAN, WAN, WLAN, etc.
- OSI and TCP/IP models and their importance in networking
- IP addressing and subnetting
- Introduction to routing and switching
- Configuring and securing network devices routers, switches, firewalls

Unit 3: Network Security:

- Common network security threats and attack vectors
- Implementing network security protocols SSL/TLS, IPsec, VPN
- Firewall technologies and configuration best practices
- Intrusion Detection and Prevention Systems IDS/IPS
- Network access control and authentication methods

Unit 4: Cybersecurity Measures:

- Understanding the principles of secure system design
- Application security and secure coding practices
- Security in the cloud computing environment
- Web application security OWASP Top 10
- Data protection and privacy considerations

Unit 5: Network Administration and Monitoring:

- Network administration tasks and tools
- Network performance monitoring and optimization
- Incident response and disaster recovery planning
- Security auditing and compliance
- Ethical hacking and penetration testing fundamentals

Registration form on the :
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