

# Network Defense Essentials.

## Einführung in das Thema Netzwerksicherheit und Netzwerkverteidigung.

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Seminar	Zurzeit keine Termine	Teilnahmebescheinigung
Präsenz / Virtual Classroom	16 Unterrichtseinheiten	

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Seminarnummer: 31773

Stand: 16.04.2026. Alle aktuellen Informationen finden Sie unter <https://akademie.tuv.com/s/31773>

Network Defense Essentials covers the fundamental concepts of information security and network defense. This introductory cybersecurity course is designed for today's entry-level information security or cybersecurity career professionals and is ideal for learners aspiring to pursue a career in cybersecurity.

## Nutzen

- Key issues plaguing the network security
- Essential network security protocols
- Identification, authentication, and authorization concepts Network security controls - Administrative controls (Frameworks, laws, acts, and security policies) - Physical controls (Physical security controls, workplace security, and environmental controls) - Technical controls (Network segmentation, firewall, IDS/IPS, honeypot, proxy server, VPN, SIEM, UBA and anti-malware)
- Fundamentals of virtualization, cloud computing, and cloud security
- Wireless network fundamentals, wireless encryption, and security measures
- Fundamentals of mobile and IoT devices and their security measures
- Cryptography and PKI Concepts
- Data security, data encryption, and data backup and data loss prevention techniques
- Network traffic monitoring for suspicious traffic

## Zielgruppe

- School students, graduates, professionals, career starters and changers, IT / Technology / Cybersecurity teams with little or no work experience.
- High-school students who aspire to get an early start on their cybersecurity career and master the fundamentals of security online.

- College or University students who are preparing for a cybersecurity career and aiding their IT education.
- Working professionals who are preparing to start with cybersecurity or switch to the field from another domain

## Voraussetzungen

Die Kursunterlagen stehen ausschließlich in englischer Sprache zur Verfügung. Daher empfehlen wir solide Englischkenntnisse aus dem IT-Umfeld.

## Inhalte des Seminars

Module 01: Network Security Fundamentals

Module 02: Identification, Authentication and Authorization

Module 03: Network Security Controls - Administrative Controls

Module 04: Network Security Controls - Physical Controls

Module 05: Network Security Controls - technical Controls

Module 06: Virtualization and Cloud Computing

Module 07: Wireless Network Security

Module 08: Mobile Device Security

Module 09: IoT Device Security

Module 10: Cryptography and PKI

Module 11: Data Security

Module 12: Network Traffic Monitoring

## Terminübersicht und Buchung

Buchen Sie Ihren Wunschtermin jetzt direkt online unter <https://akademie.tuv.com/s/31773> und profitieren Sie von diesen Vorteilen:

- Schneller Buchungsvorgang

- Persönliches Kundenkonto
- Gleichzeitige Buchung für mehrere Teilnehmer:innen

Alternativ können Sie das Bestellformular verwenden, um via Fax oder E-Mail zu bestellen.