

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Sie erreichen uns unter

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CODE: LÄNGE: PREIS: AIC AT-510 40 Hours €430.00

Description

Master the Future of Networking: Harness Al for Automation, Security, and Next-Generation Efficiency

This course provides professionals with the basic knowledge and advanced skills needed to understand the combination of artificial intelligence and current networking technologies. It discusses fundamental networking concepts, newer technologies such as SDN and NFV, and how AI can enhance network efficiency. Important focus areas consist of AI-powered network automation, orchestration, and security upgrades, combined with hands-on projects and practical labs for real-life implementation. The class ends by examining new developments and upcoming pathways in AI-enhanced networking, getting students ready for leading positions in this quickly changing sector.

The following tools will be explored in this course:

- Elastic
- Juniper
- Netdata

Lernziel

- Al-Powered Network Automation
 Ability to design, implement, and manage automated network operations using Al, optimizing efficiency and reducing manual intervention
- Network Optimization through AI
 Skills in applying AI and machine learning algorithms to optimize network performance, improving speed, reliability, and scalability.
- Al-Enhanced Network Security
 Expertise in utilizing Al to detect and prevent cyber threats, including Al-driven threat intelligence and network monitoring.
- Al for Incident Response and Cybersecurity Intelligence
 Ability to leverage Al for real-time network security incident detection, response, and forensics, enhancing cybersecurity measures.

Zielgruppe

It's designed for network engineers, cybersecurity professionals, and Al developers.

Voraussetzungen

- Basic understanding of networking fundamentals.
- Familiarity with programming languages such as Python.
- Fundamental knowledge of Al and machine learning concepts.
- Experience with network management tools and technologies is a plus.

There are no mandatory prerequisites for certification. Certification is based solely on performance in the examination. However, candidates may choose to prepare through self-study or optional training offered by AI CERTs® Authorized Training Partners (ATPs).

Inhalt

Module 1: Networking Foundations

- 1.1 Basic Networking Concepts
- 1.2 Networking Protocols and Standards
- 1.3 Network Infrastructure and Design
- 1.4 Introduction to Network Security

Module 2: Advanced Networking Technologies

- 2.1 Network Virtualization and Cloud Networking
- 2.2 Emerging Network Architectures
- 2.3 Advanced Routing and Switching
- 2.4 Network Storage and Data Centers

Module 3: Al in Networking

- 3.1 Introduction to AI and Machine Learning
- 3.2 Al-Driven Network Optimization
- 3.3 Al for Network Security and Threat Detection
- 3.4 Al-Enhanced Network Management

Module 4: Network Automation and Orchestration

- 4.1 Fundamentals of Network Automation
- 4.2 Al-Driven Network Orchestration
- 4.3 Policy-Driven Network Management
- 4.4 Case Studies in Network Automation

Module 5: Al-Enhanced Network Security

- 5.1 Advanced Threat Detection with AI
- 5.2 Secure Network Design and Architecture
- 5.3 Al for Cybersecurity Intelligence
- 5.4 Ethical Considerations in Al-Driven Security

Module 6: Practical Labs and Hands-On Projects

- 6.1 Network Simulation and Emulation
- 6.2 Al-Driven Network Automation Projects
- 6.3 Al for Network Security Projects
- 6.4 Capstone Project (Using Google Colab and Azure cloud)

Module 7: Emerging Trends and Future Directions

- 7.1 Future of AI in Networking
- 7.2 Al-Powered IoT Networks
- 7.3 Blockchain and AI in Networking
- 7.4 Continuous Learning and Career Development

Optional Module: Al Agents for Network Management

- 1. Understanding Al Agents
- 2. Case Studies
- 3. Hands-On Practice with Al Agents

Weiterführende Kurse

Recommended Certifications:

- Al+ Security Level 1[™]
- Al+ Security Level 2™
- Al+ Security Compliance™
- Al+ Ethical Hacker™
- Al+ Security Level 3[™]

Test und Zertifizierung

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Exam Details

- Duration: 90 minutes
- Passing Score: 70% (35/50)
- Format: 50 multiple-choice/multiple-response questions
- Delivery Method: Online via proctored exam platform (flexible scheduling)

Al CERTs requires recertification every year to keep your certification valid. Notifications will be sent three months before the due date, and candidates must follow the steps in the candidate handbook to complete the process.

Kurstermine

Datum	Lokation	Time Zone	Sprache	Туре	Durchführungsgarantie	PREIS
01 Jan 0001			English	Self Paced Training		€430.00

Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.