 AI CERTS™

# AI+ Network™

Certification



# Executive Summary

The AI+ Network™ certification 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.

# Prerequisites

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

# Exam Blueprint

Number  
of Questions

**50**

Passing  
Score

**35/50 or 70%**

Duration

**90 Minutes**

Format

**Online via AI  
Proctoring platform**

Question Type

**Multiple Choice/Multiple  
Response**

# Exam Overview

Module	Weight
Networking Foundations	13%
Advanced Networking Technologies	16%
AI in Networking	16%
Network Automation and Orchestration	16%
AI-Enhanced Network Security	13%
Practical Labs and Hands-On Projects	13%
Emerging Trends and Future Directions	13%
	100%

The logo for AI CERTS, featuring a stylized 'AI' icon followed by the text 'CERTS' and a trademark symbol.

AI CERTS™

The logo for AI+ Network, featuring the text 'AI+' above 'Network' and a trademark symbol.

AI+  
Network™

A stylized graphic of a human head in profile, composed of glowing blue lines and dots, representing artificial intelligence or neural networks.

# Certification Modules

## Module 1

### Networking Foundations

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1.1 Basic Networking Concepts

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1.2 Networking Protocols and Standards

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1.3 Network Infrastructure and Design

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## 1.4 Introduction to Network Security

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### Module 2

## Advanced Networking Technologies

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### 2.1 Network Virtualization and Cloud Networking

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### 2.2 Emerging Network Architectures

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### 2.3 Advanced Routing and Switching

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### 2.4 Network Storage and Data Centers

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### Module 3

## AI in Networking

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### 3.1 Introduction to AI and Machine Learning

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### 3.2 AI-Driven Network Optimization

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### 3.3 AI for Network Security and Threat Detection

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### 3.4 AI-Enhanced Network Management

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## Module 4

# Network Automation and Orchestration

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## 4.1 Fundamentals of Network Automation

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## 4.2 AI-Driven Network Orchestration

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## 4.3 Policy-Driven Network Management

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## 4.4 Case Studies in Network Automation

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## Module 5

# AI-Enhanced Network Security

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## 5.1 Advanced Threat Detection with AI

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## 5.2 Secure Network Design and Architecture

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## 5.3 AI for Cybersecurity Intelligence

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## 5.4 Ethical Considerations in AI-Driven Security

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## Module 6

# Practical Labs and Hands-On Projects

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## 6.1 Network Simulation and Emulation

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## 6.2 AI-Driven Network Automation Projects

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## 6.3 Capstone Project (Using Google Colab and Azure cloud)

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## Module 7

# Emerging Trends and Future Directions

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## 7.1 Future of AI in Networking

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## 7.2 AI-Powered IoT Networks

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## 7.3 Blockchain and AI in Networking

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## 7.4 Continuous Learning and Career Development

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# Certification Outcome

Upon successful completion of this certification, participants will possess a deep understanding of AI-driven networking technologies and the skills to implement advanced networking solutions in real-world environments. They will be proficient in automating and orchestrating network functions using AI, enhancing network security through AI-powered techniques, and applying cutting-edge solutions such as SDN and NFV. Graduates will be prepared to lead innovative networking initiatives, optimize network performance, and stay ahead of emerging trends, positioning themselves as experts in AI-enhanced networking systems.



## Market Insight

The industry of networking is changing with artificial intelligence, influenced by cloud computing, Internet of Things, and 5G technology. AI enhances network automation, performance, and security by dealing with increasing cyber threats. The increasing demand for AI-powered solutions is leading to a requirement for professionals with expertise in AI and networking.



## Value Proposition

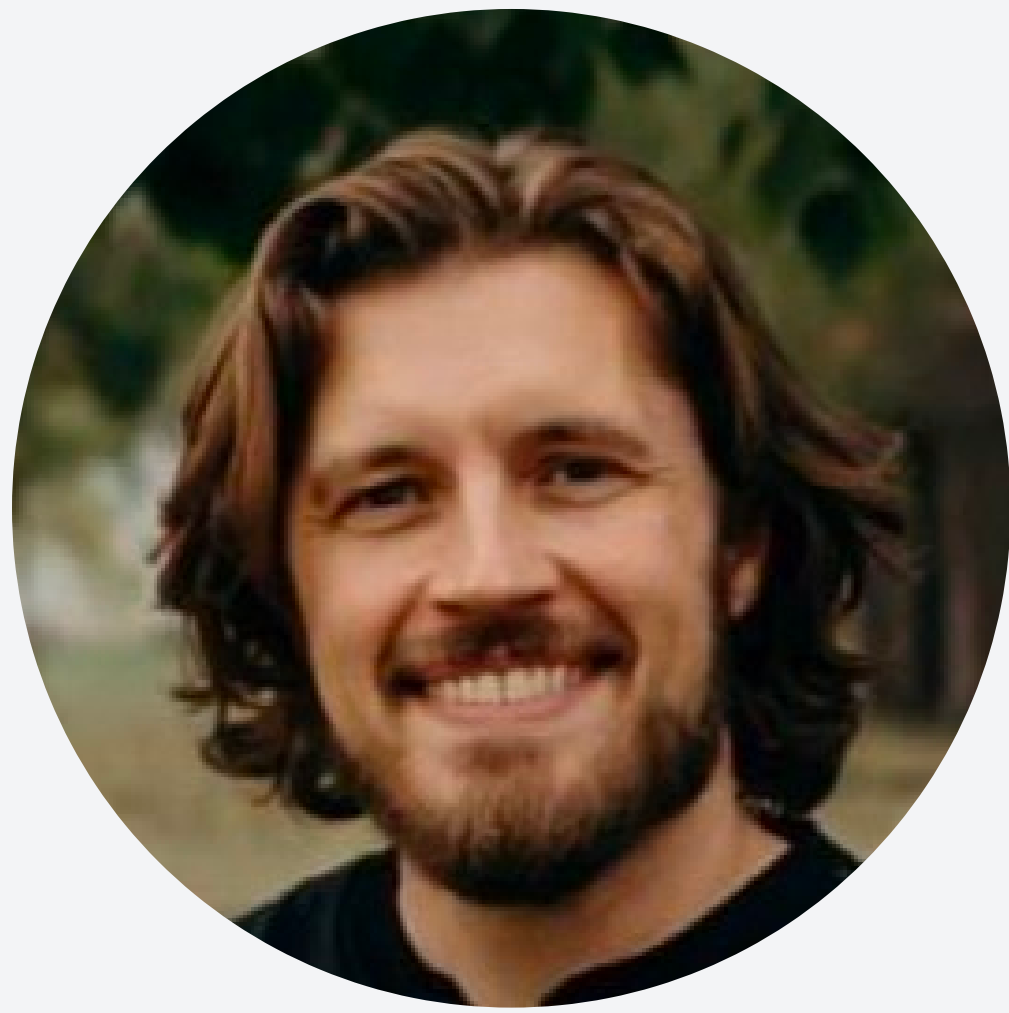
The AI + Networking course teaches professionals sought-after skills in AI-driven automation, orchestration, and security. By providing practical experience, this program equips participants with the skills needed to take charge in contemporary networking, improve efficiency, and strengthen security, thereby improving their professional opportunities in a continuously changing field.



## Additional Features

This course includes practical labs for hands-on experience with AI-driven network tools, leading to an industry-acknowledged certification. Attendees receive knowledge from experienced teachers, discover new developments such as 5G and AI-based cybersecurity, and take advantage of adaptable, independent learning opportunities.

# AI Experts



## Jason Kellington

AI Expert

As a consultant, trainer, and technical writer with more than 25 years of experience in IT, I specialize in the development and delivery of solutions focused on effective and efficient enterprise IT.



## Justin Frébault

AI Expert

I'm a boutique data consultant specializing in data mesh and lakehouse solutions. I've dedicated my career to helping organizations transform their approach to data, moving beyond mere knowledge.



## J Tom Kinser

AI Expert

I have over forty years of experience in software development, data engineering, management, and technical training. I am a Microsoft Certified Trainer and a software developer, holding multiple certifications.



## Terumi Laskowsky

AI Expert

Country Manager for Global Consulting Services in Japan, Specialties: Information Security (Compliance, Policy, Application, Host, Network)

# AI CERTS™

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