AI CERTs™

AI+ Network™

Certification

Introduction to AI CERTs

AI CERTs™ is a leader in AI and blockchain certification, offering premier programs designed to help individuals excel in these rapidly advancing fields. Our certifications are crafted to connect theoretical knowledge with practical application, ensuring learners are ready to make an immediate impact in their careers.

AI CERTs™ was established with the goal of providing high-quality, accessible certifications that enable individuals to succeed in the digital era. Our objective is to nurture a new generation of tech leaders who go beyond participation to drive innovation in the industry.

Acknowledgements

We would like to express our deepest gratitude to all the Subject Matter Experts (SMEs), industry professionals, and teams who generously dedicated their time, expertise, and insights to developing the AI CERTs™ Certification Scheme. The combined efforts of experts from various fields, such as cybersecurity, artificial intelligence, education, and professional training, have been vital in ensuring the program's relevance, rigor, and alignment with industry needs.

Contributors

The successful creation and validation of the certification scheme involved several key stakeholders and teams:

- **Subject Matter Experts (SMEs):** A diverse group of AI and cybersecurity professionals provided their expertise to ensure the certification content is comprehensive and in line with current industry standards

- **Academic Partners:** We appreciate the contributions from distinguished academic institutions, whose research and frameworks have shaped the theoretical underpinnings of the certification.

- **Industry Advisors:** We extend our special thanks to our partners from leading organizations for sharing insights on the latest market trends and emerging technologies, ensuring the certification effectively addresses the real-world challenges faced by today's AI professionals.

- **Internal Development Teams:** Our instructional designers, content creators, and technical staff worked diligently to convert expert knowledge into a structured and accessible certification scheme for professionals worldwide.

- **Compliance and Accreditation Teams:** Their careful work in aligning the certification with ISO/IEC 17024:2012 standards have ensured that the scheme meets the highest levels of international accreditation.

AI CERTs AI+ Network Exam AIC-NET-101

Exam Information

This AI+ Network certification delivers a comprehensive curriculum designed to enhance learner's skills in both networking and artificial intelligence. It consists of essential topics such as network types, protocols, infrastructure design, and security, as well as advanced subjects like network virtualization, 5G, IoT, and AI-driven optimization techniques. Learners will gain proficiency in automation tools and policy-driven management, equipping them to meet the industry's dynamic demands.

The certification also focuses on integrating AI into networking for optimization, security, and management. Through practical labs and projects, you will create AI-powered solutions for threat detection, diagnostics, and resource allocation. Additionally, Learners will explore emerging trends like blockchain technology and the future of AI in networking, positioning individuals to thrive in innovative roles that blend networking expertise with AI knowledge.

Exam Specifications

- **Number of Questions:** 50

- **Passing Score:** 70%

- **Duration:** 90 Minutes

Note: The exam duration includes 5 minutes for reading and signing the Candidate Agreement and 5 minutes for the Proctoring 365 tutorial.

- **Exam Options:** Online, Remotely Proctored

- **Item Formats:** Multiple Choice / Single Response

Item Format Details:

- The exam will primarily consist of multiple-choice questions with single-response options.

The exam will be administered using **Proctoring 365**, AI CERTs proprietary remote proctoring solution, ensuring a secure and reliable testing environment for all candidates.

Exam Description

Target Candidate:

This certification is intended for:

- Networking Professionals

  - Network Engineers

  - System Administrators

  - Cloud Architects

- Data Scientists and Analysts

  - Data Engineers

  - Machine Learning Engineers

  - AI Analysts

- IT Personnel

  - DevOps Engineers

  - Technical Support Specialists

- Aspiring Networking Practitioners

  - Students pursuing degrees in networking, AI, or related fields

  - Career Changers looking to transition into networking domain

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- Business Leaders and Executives

  - Chief Technology Officers (CTOs)

  - IT Managers overseeing network infrastructure

- Educators and Trainers

  - University Professors teaching courses on AI and networking

  - Corporate Trainers developing and delivering training programs

Exam Objective Statement:

- **Understand AI and Networking Principles:** Comprehend the fundamental concepts of artificial intelligence (AI) and its role in networking, emphasizing optimization and automation.

- **Apply AI for Network Performance Enhancement:** Implement AI techniques to improve network efficiency, including traffic management, load balancing, and resource distribution.

- **Utilize AI Algorithms for Network Security:** Use AI algorithms for real-time threat detection and automated responses to address network vulnerabilities, reducing security risks.

- **Leverage Machine Learning Models for Traffic Analysis:** Employ machine learning models to analyze network traffic patterns, identify anomalies, and optimize bandwidth usage.

- **Develop Smart Network Management Strategies:** Formulate proactive strategies for managing networks that utilize AI to anticipate problems and boost operational effectiveness.

- **Engage in Network Monitoring and Diagnostics:** Learn and apply monitoring techniques, leveraging AI tools to identify, diagnose, and resolve network issues swiftly.

- **Familiarize with AI-Driven Network Automation Tools:** Gain knowledge of various AI-based tools that automate

network configurations and enhance management processes.

- **Capstone Project Integration:** Combine the knowledge and skills acquired throughout the course in a capstone project that tackles real-world networking challenges, focusing on AI implementations.

To ensure that exam candidates demonstrate the necessary skills, the **AI+ Network** exam (Exam Code: **AIC-NET-101**) will assess their knowledge across the following domains, along with their respective weightings:

Modules	% of Examination
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%

Total	100%

Objectives

The information provided below is intended to help you prepare for your certification exam with AI CERTs. While this resource is valuable, it does not cover every concept and skill that may appear on your exam. The exam domains, previously identified in the objectives listing, represent the primary content areas assessed. Each objective within these domains corresponds to specific tasks relevant to the job role(s) being evaluated. Additional information beyond the domains and objectives offers examples of concepts, tools, skills, and abilities pertinent to those areas. This content is derived from industry expert analysis related to the certification job role(s) and may not directly align with all aspects of the training program or exam content. We strongly recommend engaging in independent study to familiarize yourself with any concepts mentioned here that may not have been explicitly addressed in your training materials.

Module 1: Networking Foundations (13%)

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 (16%)

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 AI in Networking (16%)

3.1 Introduction to AI and Machine Learning

3.2 AI-Driven Network Optimization

3.3 AI for Network Security and Threat Detection

3.4 AI-Enhanced Network Management

Module 4 Network Automation and Orchestration (16%)

4.1 Fundamentals of Network Automation

4.2 AI-Driven Network Orchestration

4.3 Policy-Driven Network Management

4.4 Case Studies in Network Automation

Module 5 AI-Enhanced Network Security (13%)

5.1 Advanced Threat Detection with AI

5.2 Secure Network Design and Architecture

5.3 AI for Cybersecurity Intelligence

5.4 Ethical Considerations in AI-Driven Security

Module 6: Practical Labs and Hands-On Projects (13%)

6.1 Network Simulation and Emulation

6.2 AI-Driven Network Automation Projects

6.3 AI for Network Security Projects

6.4 Capstone Project (Using Google Colab and Azure cloud)

Module 7: Emerging Trends and Future Directions (13%)

7.1 Future of AI in Networking

7.2 AI-Powered IoT Networks

7.3 Blockchain and AI in Networking

7.4 Continuous Learning and Career Development

Certification Scheme Development:

- Certification activities are independent of training. Training providers, including ATPs, do not participate in certification decisions, exam development, or exam review.

Initial Certification and Recertification Criteria

1.1 Eligibility Requirements

To be eligible for initial certification, an applicant must:

- Mandatory prerequisites: *None*
- Successfully complete the application process and submit all required documentation (If required).
- Required Documentation
4. Completed application form
5. Agreement to the Certification Body's policies, including the Code of Conduct, Confidentiality Policy, and Impartiality Declaration.
- Pay all applicable fees associated with the certification process.

1.2 Assessment Requirements

To obtain certification, the applicant shall:

- Complete the required examination(s) or assessment(s) aligned with the competence requirements of the scheme.
- Demonstrate the required level of competence according to the passing score and evaluation methods established by the Certification Body.

1.3 Issuance of Certificate

- Upon meeting all requirements, the Certification Body will issue an electronic certificate to the applicant.
- The certificate will clearly display the certificant's name, certification scheme, certificate ID, date of issuance, and expiration date.
- Validity Period: All certificates are valid for **1 year from the date of issuance**.
- Certificants must maintain compliance with the Code of Conduct and certification requirements throughout the validity period.
- The Certification Body reserves the right to suspend or withdraw the certificate in cases of misconduct, non-compliance, or falsification of information.

Recertification Requirements

To maintain your certification status, AI CERTs require recertification every 1 year. Candidates will be notified 3 months before their recertification due date. Candidates need to apply for recertification following the guidelines provided in the candidate handbook.

1. Recertification Criteria / Eligibility

To qualify for recertification, the certificant must:

- Primary Method: Re-examination

- Hold a valid or recently expired certificate

- Ensure compliance with all Certification Body policies, including updated versions of the Code of Conduct.

- Pay the applicable recertification fees.

2. Recertification Process

Once a certificate expires, the certificant may initiate the recertification process by contacting the Certification Body at **support@aicerts.ai.**

- The Certification Body will provide instructions and any updated requirements applicable to the recertification pathway.

- Recertification may require one or more of the following (scheme-dependent):

o Re-examination

o Attestation of continued adherence to the Code of Conduct

3. Issuance of Renewed Certificate

- Upon successful completion of the recertification requirements, a new certificate valid for 1 year will be issued.

- The issuance date and expiration date will reflect the recertification completion date, not the previous certificate's expiration date (unless scheme specifies otherwise).

4. Failure to Recertify

- If the certificant does not initiate the recertification process after expiry, their certificate will be marked as expired in

the Certification Registry.

- The certificant must not use or claim certification status after expiration.
- Individuals attempting to recertify after a prolonged gap **(3 Months)** may be required to undergo the full initial certification process again (scheme-dependent).

Contact Us for Recertification Inquiries

For any questions or to initiate the recertification process, please reach out to our support team. We are here to assist you with your recertification needs. Email: support@aicerts.io

Suspension and Withdrawal

Suspension or withdrawal may occur due to:

- Breach of the Code of Conduct
- Misuse or misrepresentation of certification
- Failure to comply with examination or recertification rules
- Non-payment of required fees
- Falsification of information
- Failure to recertify within the defined timelines

1.1 Certification Suspension

When certification is suspended, the certified person or organization must cease all promotion and use of the certification. This includes removing references to the certification in advertising, on websites, and in any other public materials. Suspension is a temporary measure that allows time for the certified person to resolve outstanding issues, but certification rights are revoked during this period.

1.2 Certification Withdrawal

Certification withdrawal occurs when issues remain unresolved or there is a significant breach of certification requirements. Once withdrawn, the certified person must immediately remove all references to the certification and return or destroy any certification documents or certificates issued by the certification body. Failure to comply with withdrawal requirements may result in legal action and public notification of the withdrawal.

Non-Resolution of Issues Leading to Withdrawal or Scope Reduction

2.1 Transition from Suspension to Withdrawal

If issues remain unresolved during the suspension period, the certification body may proceed with the withdrawal of the certification or the reduction of the certification scope. This decision will be communicated in writing, and the certified person will be given a final opportunity to address the outstanding issues before the withdrawal or scope reduction is enforced.

2.2 Scope Reduction

If certain areas of certification are no longer valid due to unresolved issues, a scope reduction may be applied. This means the certified person will retain certification in some areas, but the reduced scope will be reflected in public records and on the issued certificate.

Monitoring and Compliance

3.1 Monitoring During Suspension or Withdrawal

The certification body will actively monitor certified persons during suspension or withdrawal periods to ensure compliance with the requirements to cease certification promotion. Regular checks will be conducted on advertising materials, websites, and any other public-facing documents to verify compliance.

3.2 Consequences for Non-Compliance

Non-compliance with the requirements of suspension or withdrawal may result in further legal action, public notifications of non-compliance, and permanent disqualification from future certification. Any violations will be documented and may be reported to legal authorities if necessary.

Reinstatement and Appeals

4.1 Reinstatement of Certification

Certified persons who resolve their issues during the suspension period may apply for reinstatement of their certification. The certification body will review the resolution of issues, and if all requirements are met, the

suspension will be lifted, and certification rights will be reinstated.

4.2 Appeals Process for Withdrawal or Scope Reduction

Certified persons have the right to appeal certification withdrawal or scope reduction decisions. Appeals must be submitted in writing, outlining the reasons for contesting the decision. The certification body will review the appeal and provide a decision within a specified time frame.

Legal and Public Notifications

5.1 Public Notification of Certification Withdrawal

AI CERTs will maintain and make publicly available an up-to-date registry of certified persons, including those whose certification is suspended, withdrawn, or reduced in scope. This information will be published on the AI CERTs website and also provided upon request. More Information regarding suspended, withdrawn, or scope-reduced certifications shall be made available to the upon request over the email.

5.2 Legal Action for Non-Compliance

If a certified person continues to use or promote their certification after withdrawal or during suspension, legal action may be taken. The certification body will consult with legal authorities to determine the appropriate actions to address non-compliance.

NO SCOPE / LEVEL CHANGE CRITERIA

The AI+ Ethical Hacker (AIC-ETH-101) certification is a single-level credential.
There are currently no upper or lower certification levels associated with this scheme; therefore, no level upgrade or downgrade applies.

If additional levels or specializations are introduced in the future (e.g., Ethical Hacker Level 2), candidates must apply to those schemes independently and meet their respective certification criteria.

Duties and Rights of Certified Persons

Duties

Certified individuals must:
- Uphold ethical conduct as outlined in the Code of Conduct
- Maintain confidentiality of examination content
- Use certification marks accurately and appropriately
- Notify the Certification Body of any changes in personal information
- Refrain from using the certification after expiry, suspension, or withdrawal
- Maintain ongoing competence in the certification domains
- Complete recertification within the required cycle

Rights

Certified individuals have the right to:
- Fair, impartial, and confidential treatment
- Access certification requirements and policies
- Appeal adverse certification decisions
- Submit complaints regarding certification processes
- Receive updated certification and recertification requirements

Code of Conduct

Code of conduct for review available on the AI CERTs official website at: https://www.aicerts.ai/code-of-conduct

All AI CERTs-certified professionals must adhere to the AI CERTs Code of Conduct, which emphasizes integrity, confidentiality, continuous competence development, fairness, and compliance with applicable laws and regulations. Certified individuals are expected to avoid conflicts of interest, respect intellectual property rights, and uphold ethical behavior in all professional activities. Any violation of this code may result in suspension or revocation of certification. Certified professionals agree to these terms as a requirement for maintaining their certification.

Scope:

This Code of Conduct applies to all:

- • Candidates seeking certification

- • Certified individuals (certificants)
- • Individuals renewing certification
- • Any person representing themselves as part of AI CERTs certification programs

1. Professional Conduct:

Candidates and certificants shall:
- • Act with honesty, integrity, and professionalism at all times.
- • Demonstrate respect toward peers, trainers, exam staff, and AI CERTs personnel.
- • Avoid any behavior that may harm the reputation of AI CERTs or its certification programs.

2. Compliance with Laws and Regulations:

Candidates and certificants shall:

- • Adhere to all applicable local, national, and international laws.
- • Comply with all AI CERTs policies, certification rules, and examination requirements.

3. Examination Ethics:

Candidates shall not:
- • Engage in cheating, copying, impersonation, or any form of misconduct.
- • Share, reproduce, or solicit confidential exam content.
- • Use unauthorized materials, devices, or assistance during examinations.
- • Disrupt the examination environment.

Violations will result in disciplinary action, including cancellation of exam results or prohibition from future exams.

4. Confidentiality:

Certificants and candidates shall:
- • Maintain confidentiality of all exam materials, scenarios, test items, and secure content.
- • Not disclose proprietary AI CERTs certification information to unauthorized individuals.

5. Conflict of Interest:

Candidates and certificants must:

- Disclose any conflict of interest that may influence their participation, endorsement, or representation of AI CERTs certifications.
- Avoid situations that could compromise impartiality.

6. Ethical Use of Certification:

Certificants shall:
- Present their certification status accurately, without false claims.
- Not misuse, misrepresent, or exaggerate their certification.
- Discontinue use of AI CERTs credentials if certification expires, is suspended, or revoked.

7. Misconduct and Disciplinary Actions:

Examples of misconduct include:

- Fraud, forgery, falsification of documents
- Cheating or attempting to gain unfair advantage
- Unethical professional practice
- Violating AI CERTs policies or exam rules

AI CERTs may impose disciplinary actions such as:
- • Written warning
- • Exam disqualification
- • Revocation or suspension of certification
- • Permanent ban from future certification activities

8. Reporting Violations:

- Candidates and certificants are required to:
- Report any observed misconduct or violations of this Code of Conduct.
- Cooperate fully in investigations conducted by AI CERTs.

Reports may be submitted confidentially to: compliance@aicerts.ai

9. Agreement:
By applying for, participating in, or maintaining certification, candidates and certificants acknowledge that:
- • They have read, understand, and agree to comply with the AI CERTs Code of Conduct.
- • Violations may result in disciplinary action.

Acronym

- AI - Artificial Intelligence

- ML - Machine Learning

- IoT - Internet of Things

- SDN - Software Defined Networking (implied in network virtualization and emerging architectures)

- NOC - Network Operations Center (implied in network management)

- WAN - Wide Area Network (implied in advanced routing and switching)

- LAN - Local Area Network (implied in network infrastructure and design)

- VPN - Virtual Private Network (implied in network security)

- VM - Virtual Machine (implied in network virtualization and cloud networking)

- QoS - Quality of Service (implied in AI-driven network optimization)

Version History				
Version	Date	Description of Changes	Policy Title/Section Updated	Notes
V1.0	8th Jan 2024	Initial Copy	AI+ Network Certification Scheme	NA
V2.0	28th Nov 2025	Updated V2.0	1. Certificate Scheme Development 2. Initial Certification and Recertification Criteria 3. Code of Conduct	

AI CERTs Certified AI+ Network (AIC-NET-101) Exam Blueprint

AI CERTs™

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