AICERTs™

AI+ Security™ Compliance

Certification

Executive Summary

The AI+ Security Compliance is an advanced course that merges the fundamental principles of cybersecurity compliance with the transformative power of artificial intelligence (AI). Building on the CISSP framework, this course focuses on how AI can enhance compliance processes, improve risk management, and ensure robust security measures in alignment with regulatory standards. This course introduces you to the core principles of cyber security compliances, while exploring the potential of AI to enhance your security posture. This course structure integrates comprehensive cybersecurity compliance principles with advanced AI applications, providing learners with the necessary skills to ensure compliance and enhance security through AI technologies.

Prerequisites

- Basic understanding of cybersecurity principles.
- Knowledge of networking fundamentals.
- Familiarity with programming concepts and languages (Python recommended)
- An introductory course on AI or machine learning is beneficial but not required.

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
Introduction to Cybersecurity Compliance and AI	10%
Security and Risk Management with AI	10%
Asset Security and AI for Compliance	10%
Security Architecture and Engineering with AI	10%
Communication and Network Security with AI	10%
Identity and Access Management (IAM) with AI	10%
Security Assessment and Incident Response with AI	10%
Security Operations with AI	10%
Software Development Security and Audit with AI	10%
Future Trends in AI and Cybersecurity Compliance	10%
	100%

AI CERTs™

AI+ Security Compliance™

Certification Modules

Module 1

Introduction to Cybersecurity Compliance and AI

1.1 Overview of Cybersecurity Compliance

1.2 International Compliance Standards

1.3 Developing Compliance Programs

1.4 Implementing Compliance Programs

1.5 AI in Cybersecurity Compliance

1.6 Case Studies and Applications

Module 2

Security and Risk Management with AI

2.1 Risk Management Frameworks

2.2 Conducting Risk Assessments

2.3 AI in Risk Assessment

2.4 Compliance and AI

2.5 Incident Response and AI

Module 3

Asset Security and AI for Compliance

3.1 Data Classification and Protection

3.2 AI in Privacy Protection

3.3 Asset Management with AI

3.4 Case Studies and Best Practices

Module 4

Security Architecture and Engineering with AI

4.1 Secure Design Principles

4.2 AI in Cryptography

4.3 AI in Vulnerability Assessment

4.4 Security Models and AI

Module 5

Communication and Network Security with AI

5.1 Network Security Fundamentals

5.2 AI in Network Monitoring

5.3 AI-driven Network Defense

5.4 Compliance in Network Security

Module 6

Identity and Access Management (IAM) with AI

6.1 IAM Fundamentals

6.2 AI in Identity Verification

6.3 Access Control and AI

6.4 Threats to IAM and AI Solutions

Module 7

Security Assessment and Incident Response with AI

7.1 Security Testing Techniques

7.2 AI in Security Testing

7.3 Continuous Monitoring and AI

7.4 Incident Response Planning

7.5 Managing Cybersecurity Incidents

7.6 Legal and Regulatory Considerations

Module 8

Security Operations with AI

8.1 Security Operations Center (SOC)

8.2 Data Classification and Protection

8.3 Privacy Compliance

8.4 Disaster Recovery and AI

8.5 AI in Security Orchestration

Module 9

Software Development Security and Audit with AI

9.1 Secure Software Development Life Cycle (SDLC)

9.2 AI in Application Security Testing

9.3 AI in Secure DevOps

9.4 Threat Modeling and AI

9.5 Internal and External Audits

9.6 Continuous Monitoring

Module 10

Future Trends in AI and Cybersecurity Compliance

10.1 Emerging AI Technologies

10.2 AI in Cyber Threat Intelligence

10.3 Quantum Computing and AI

10.4 Ethical Considerations and AI Governance

10.5 Practical Applications

Certification Outcome

Upon completing this course, participants will gain a comprehensive understanding of cybersecurity compliance, focusing on the integration of AI technologies to enhance security measures across various domains. They will be equipped with knowledge of key compliance frameworks, international standards, and effective compliance program development. Learners will explore AI's role in risk management, asset security, identity and access management, and incident response, as well as its application in security architecture, network security, and software development. The course will also cover future trends in AI and cybersecurity, including emerging technologies, quantum computing, and ethical considerations, providing participants with the skills to implement and manage AI-driven security solutions effectively in their organizations.

Market Insight

The AI+ cybersecurity market is expanding as companies adopt AI for enhanced threat detection, compliance, and risk management, driven by increasing cyber threats and regulatory demands.

Value Proposition

Leverage cutting-edge AI to enhance your cybersecurity strategy, ensuring proactive threat detection, streamlined compliance, and robust risk management. Our solutions empower your organization to stay ahead of evolving cyber threats while simplifying the complexities of regulatory adherence, ultimately safeguarding your assets and reputation.

Additional Features

Automated compliance monitoring with real-time alerts, AI-driven threat intelligence for predictive insights, and dynamic risk assessment tools to proactively manage emerging cyber threats.

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)

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