

Certified Information Security & AI Professional (CISAIP) Workshop

Course Duration: 5 days

Course Overview

Transform your CISSP expertise with AI-driven security strategies. Gain the documents, frameworks, and best practices needed to elevate your cybersecurity skills into the AI era. This 3-day intensive program focuses on bridging AI concepts into each of the eight CISSP domains.

Target Audience

- CISSP-Certified Professionals looking to integrate AI into their existing security framework.
- Cybersecurity Managers and Team Leads who oversee risk management, network security, or IAM.
- IT Governance Professionals aiming to align AI strategies with corporate compliance.
- Security Architects and Engineers exploring AI for threat modeling, detection, and response.

What You Will Learn

- AI Integration for Each CISSP Domain: Adapt your foundational knowledge with AI-driven solutions and documentation.
- Strategic Document Creation: Develop governance policies, risk assessment frameworks, and compliance checklists that incorporate AI considerations.
- Real-World Application: Discover how to immediately deploy these tools and templates for faster, more effective security management.

Why Should you attend the course

- Future-Proof Your Skillset: Stay relevant by evolving your current CISSP knowledge to include AI advancements.
- Practical Output: Walk away with ready-to-use documents and frameworks—no abstract theory, just actionable deliverables.
- Certification Advantage: Earn the CISAIP credential, demonstrating your AI-readiness to employers and peers.

Course Focus Areas

- **AI Fundamentals for Cybersecurity**
Explore core AI concepts (ML, NLP, Deep Learning) and how they apply to risk detection and threat intelligence.
- **Risk Management & Compliance Upgrades**
Adapt traditional risk frameworks like NIST SP 800-30 with AI-based tools for predictive analysis.
- **Documenting AI-Infused Architecture & Engineering**
Use curated templates to incorporate AI into network designs, hardware configurations, and secure system lifecycles.
- **AI-Driven IAM & Access Control**
Build policies for biometric authentication, anomaly detection, and zero-trust frameworks augmented by AI.
- **Security Assessment & Testing Tools**
Compile checklists for AI-driven penetration testing, vulnerability scanning, and continuous compliance.
- **Incident Response & Security Operations**
Leverage AI to enhance incident response playbooks, streamline log analysis, and automate threat hunting.
- **Governance, Ethics, and Regulatory Considerations**
Account for ethical AI deployment, data privacy, and evolving legal frameworks.
- **AI in Software Development Security**
Develop guidelines for integrating AI-powered static code analysis and secure DevOps pipelines.

Prerequisites

- Active CISSP Certification (or equivalent professional experience).
- Anyone with a Basic understanding of cybersecurity fundamentals, including risk management, network security, and IAM concepts.

Course Agenda

Course Modules & Topics (Focuses on the CISSP's domains)

Module #	Module Topic	Description
00	Overview	<ul style="list-style-type: none">• Course Introduction• Certificate Introduction & Exam Details.
Module 01	Security and Risk Management (Domain 1)	<ul style="list-style-type: none">• AI-Driven Governance and Policy: How to update existing security policies with AI considerations, including ethical AI guidelines.• AI in Risk Assessment: Leveraging predictive analytics for threat forecasting and prioritization.• Compliance and Regulatory Requirements: Incorporating evolving AI regulations into standard compliance checklists (e.g., GDPR, ISO 27001)
Module 02	Asset Security (Domain 2)	<ul style="list-style-type: none">• Data Classification with AI: Automating classification processes using machine learning.• AI-Enabled Asset Discovery: Identifying unknown or untracked assets through anomaly detection.• Information Lifecycle Management: Managing data retention and destruction policies with AI-driven audits.
Module 03	Security Architecture and Engineering (Domain 3)	<ul style="list-style-type: none">• AI-Augmented System Design: Integrating machine learning models into secure-by-design principles.• Hardware and Firmware Considerations: Evaluating AI accelerators, edge devices, and their security implications.• Emerging Technologies: Quantum-resistant cryptography and how AI aids in designing future-proof architectures.

<p>Module 04</p>	<p>Communication and Network Security (Domain 4)</p>	<ul style="list-style-type: none"> • AI in Network Segmentation: Automating segmentation policies based on real-time traffic analytics. • Intelligent Threat Detection: Machine learning for anomaly detection, intrusion prevention, and traffic flow analysis. • Secure Protocols and Encryption: Assessing AI's role in identifying vulnerabilities in encryption algorithms and protocols.
<p>Module 05</p>	<p>Identity and Access Management (Domain 5)</p>	<ul style="list-style-type: none"> • Biometric Authentication with AI: Facial recognition, voice authentication, and continuous monitoring for identity assurance. • Adaptive Access Control: Using AI to determine dynamic access privileges based on user behavior patterns. • Zero Trust Models: Leveraging AI to enforce just-in-time access decisions and micro-segmentation.
<p>Module 06</p>	<p>Security Assessment and Testing (Domain 6)</p>	<ul style="list-style-type: none"> • Automated Vulnerability Scanning: Enhancing traditional tools with AI to reduce false positives and streamline reporting. • Penetration Testing with AI: Scripted AI bots to discover complex attack paths and misconfigurations. • AI-Driven Compliance Testing: Crafting checklists to validate adherence to regulations and internal policies.
<p>Module 07</p>	<p>Security Operations (Domain 7)</p>	<ul style="list-style-type: none"> • AI in Security Operations Centers (SOCs): Implementing ML-based event correlation, automated alert triaging, and real-time threat hunting. • Incident Response Automation: Leveraging AI to detect attacks faster and orchestrate response playbooks. • Behaviour Analytics & Insider Threats: Using AI to profile normal behaviors and flag suspicious deviations.

Module 08	Software Development Security (Domain 8)	<ul style="list-style-type: none">• AI-Enhanced Code Review: Tools and approaches for automatically identifying security flaws during development.• Secure DevOps Pipelines: Integrating AI-based vulnerability scanning into CI/CD workflows.• AI for Threat Modeling: Generating risk scenarios and countermeasures early in the software lifecycle.
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Exam Details

Exam Details	Exam Code: MBC-400
MCQs	100 randomized out of 150 total
Duration	120 Minutes
Test Format	Multiple choice and advanced innovative items
Test Delivery	Pearson VUE, either at authorized testing centers or online, depending on your preference and location.
Passing Score	70% or greater
Practice Exam	No
Validity	1 year