Course : CISSO, Certified Information Systems Security Officer, MILE2 certification

Practical course - 5d - 35h00 - Ref. CEF
Price : 5010 CHF E.T.

★★★★ **4 / 5**

This course is designed to prepare candidates for the CISSO exam, the international certification issued by MILE2. The course covers the full range of information security knowledge in 19 domains. It is aligned with the objectives of the major standards ISO 27001, NIST, CISM and CISSP.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Acquire the knowledge in the 19 core subjects required to pass the CISSO and CISSP exams
- ✓ Acquire the knowledge to advise an organization on best practices in ISS management

Intended audience
CIOs, engineers and project managers, security consultants, security managers, auditors.

Prerequisites
Experience in networks, systems and security. Understanding of technical English.

Certification
Online certification exam on the MILE2 website (2 hours/100 questions). Pass requirement: at least 70% correct answers.

Practical details
Teaching methods
Set of lectures covering each area of the exam syllabus. Set of questions/answers at the end of each area. Support and animation in French.

Course schedule

PARTICIPANTS
CIOs, engineers and project managers, security consultants, security managers, auditors.

PREREQUISITES
Experience in networks, systems and security. Understanding of technical English.

TRAINER QUALIFICATIONS
The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS
The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Risk and Security Management, IAM and Access Control

- Risk Management: risk management, assessment and response.
- Security Management: ISMS, roles and responsibilities, frameworks, human resources.
- Identification and Authentication: identity Management, authentication, Access Control Monitoring.
- Access Control: access control types, information classification, access control models and methods.

2 Security Operations and Cryptography

- Security Models and Evaluation Criteria: protection mechanisms, security models.
- Operations Security: operational incidents and threats, responsibilities.
- Sym. Cryptography and Hashing: definition, history, cryptography fundamentals, symmetrical algorithms.
- Asym. Cryptography and PKI: hybrid crypto and digital signature, PKI, uses, crypto attacks.

3 Network and Communications Security, Security Architecture

- Network connections: network and communication security, topologies, network transmissions, cabling, LAN/WAN.
- Network Protocols and Devices: OSI model, protocols, ports & services.
- Telephony, VPNs and Wireless: telephony, VPNs, WiFi, network-based attacks.
- Security Architecture and Attacks: architecture models, system attacks.

4 Software Development Security, Database Security, Malware

- Soft Development Security: software development processes, Web security, PCI-DSS compliance.
- DB Security and System Development: models and terminologies, database security.
- Malware and Software Attacks: virus, Worm, Logic Bomb, Trojan Horse, Timing Attack, Spyware.

5 BCP & DRP, Security Incidents, Laws & Ethics, Physical Security

- BCP & DRP: BIA, strategies, development plans, testing.
- Incident Management, Law and Ethics: Computer Crime, evidence management, ethics and confidentiality.
- Physical Security: premises and building construction, perimeter protection, electrical and fire threats.

Exam
Pass the CISSO certification exam.

Dates and locations

REMOTE CLASS
2026 : 18 May, 12 Oct., 16 Nov.