

CERTIFICATE IN

CYBER SECURITY

5 Month Course 2026



CYBER SECURITY INSTITUTE
Solutions • Advisory • Learning



Course Details

This practical, hands-on course focuses on establishing a foundation in Cyber Security by introducing candidates to cyber-crime, attack methods, and managing cyber risks.

Developed by the Cyber Security Institute (CSI) and offered in collaboration with the Cape Peninsula University of Technology (CPUT) and the French South African Institute of Technology (FSATI). The course is presented via facilitated e-learning, utilising an e-learning platform and virtual classes. This course is designed for individuals embarking on a career in Cyber Security or performing security functions.

Mode Of Learning

Learning will be conducted by means of a facilitated online format, utilising an e-learning platform to provide an interactive and engaging educational experience. Additionally, hands-on practical sessions and virtual labs will be conducted offering participants the opportunity to apply theoretical knowledge in a real-world context. This blend of online facilitated learning and scheduled virtual sessions aims to create a comprehensive and dynamic learning environment, ensuring a well-rounded educational experience for participants.

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Important Course Information



Requirements

Applicants should have a Matric certificate or equivalent qualification with suitable IT knowledge, Internet access, and a PC or laptop on which applications can be installed and services accessed.

Intake

We have two main intakes, one at the end of February and another at the end of June. Additional intakes may be scheduled depending on application volumes and requirements.

Payment Terms & Duration

The course runs over a period of five 5 months at an all-inclusive fee of R12,500.

A deposit of R6,000 is required to secure enrollment. The remaining balance of R6,500 is payable in two 2 monthly installments of R3,125 each, due within the first two months following the commencement of the course.

Why CSI?

- 24-hour access to the CSI e-learning platform
- Bespoke course content tailored to your learning journey
- Expert facilitators from the cyber security industry
- Human support via WhatsApp, online platform, and email (no AI responses)
- Access to additional masterclasses for extended learning
- Networking opportunities with fellow cyber security delegates
- Direct contact with course facilitators and participation in live virtual classes
- Access to the CSI Alumni Network
- Official registration with CPUT (Cape Peninsula University of Technology)
- All learning materials included



Course Overview

Practical Cryptography

- Introduction to cryptography.
- Encryption and Decryption.
- Hash functions
- Blockchain
- Virtual Currencies
- Digital signatures
- Digital certificates
- Cryptographic Protocols (SSL, SSH, etc.)

Cyber Intelligence

- Introduction to Cyber Intelligence
- Attack Tools
- Attack process
- Reconnaissance and Footprinting
- OSINT services and tools
- Threat and vulnerability feeds and assessments

Cyber Governance, Risk & Compliance

- Overview of cyber governance, risk, and compliance
- POPIA & GDPR
- Data Privacy
- Policies in action
- NIST, ISO27001
- Controls
- Planning for contingencies
- Developing the security program
- Risk analysis and management

Cyber-crime

- Introduction to cyber-crime Cyber-attack methods (e.g., ransomware, sextortion, email fraud)
- Cyber criminology (actors behind the attacks, criminal networks, state-sponsored entities, etc.)
- Tracing the online trail
- Dark web (criminal forums)
- Case studies of attacks in SA & Global.
- Crime-as-a-Service
- Internet of (Criminal) Things.