



## CAS Cyber Security Masterclass (IRM, ISO, NIST, CISSP)

Certified competence to prevent attacks and protect assets

Safety first! Cyber-attacks, information security and risk management are top issues for management. Today, the protection of digital assets (information, company, and personal data) is business critical. Therefore, cybersecurity strategies, security awareness campaigns and comprehensive information security management are necessary tools for managers in the IT environment.

IT security is a growing market in IT. This course offers IT professionals and career changers the opportunity to expand their skills around cybersecurity in a targeted manner. Our classes are characterised by a mix of IT and business IT specialists as well as people with a legal background, board members, consultants, and auditors. In addition to a solid technical foundation, you will gain a broad overview of security and risk management, law, awareness campaigns and cybersecurity. Furthermore, you will apply this knowledge to a project and thus receive a template for the implementation in your company/organisation.

## **Programme Goals**

create and implement a security framework.

- conduct and document a standards-based information security audit.
- collect and evaluate a risk analysis around information security.
- design and implement awareness campaigns.
- name and classify the basics of BSI, ISO 27001 as well as NIST.
- take the ISO 27001 certification (validity: unlimited).
- classify data protection aspects and management responsibilities.



Contents	<ul> <li>NIST Cyber Security Framewor</li> <li>Threats and dangers, security of</li> <li>Physical security, crisis manage</li> <li>Risk analyses according to CISS</li> <li>Mobile communication, VoIP, W</li> <li>Security Models, System Security</li> <li>Application Security: Business I</li> <li>Hacking, Web Security, Securit</li> <li>Infrastructure: Perimeter Securit</li> <li>Cryptology: cryptoanalysis, ste</li> <li>Security awareness: training communication</li> </ul>	nination I CISSP certification examination k CSF: Structure and foundation guidelines and standards ement and business continuity strategies SP, industrial espionage, social engineering /LAN/telephone/Bluetooth security ity Architecture, Identity & Access Control Processes, Business Continuity BCM y Architectures, Cyber Crime, IT Forensic ity, TCP/IP Protocol Architecture
Specialities	You can extend the CAS Cyber Security Masterclass to: DAS Digital Leadership in IT and MAS Information Systems Management.	
Target Group	Sectors: Banks, insurance compan service providers, media, telecomr	
Degree	Certificate of Advanced Studies FHNW Cyber Security Masterclass, 15 ECTS	
Lecturers	<ul> <li>Rainer Kessler, swisstec Academy</li> <li>Johannes Dohren, PwC</li> <li>Frank Schefter, Swisscom</li> </ul>	
Location	Online	
Costs	CHF 7 500 (incl. documents, ISO examination, excl. CISSP examination) per 1 January 2025: CHF 7 900	
Programme Head	Prof. Martina Dalla Vecchia martina.dallavecchia@fhnw.ch	T +41 61 279 17 62
Coordination	Dominique Ongaro dominique.ongaro@fhnw.ch	T +41 61 279 18 65