

## CAS Cybersecurity and Information Risk Management (CISSP/BSI/ISO/NIST)

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.
  - understand the overarching context of 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.

<b>Contents</b>	<ul style="list-style-type: none"> <li>• Systematics according to ISO/IEC 27001 and ISO/IEC 19011</li> <li>• ISO/IEC Foundation examination (ISFS)</li> <li>• Structure and foundation of the NIST Framework</li> <li>• Threats and dangers, security guidelines and standards</li> <li>• Physical security, crisis management and business continuity strategies</li> <li>• Risk analyses according to CISSP, industrial espionage, social engineering</li> <li>• Mobile communication, VoIP, WLAN/telephone/Bluetooth security</li> <li>• Preparation for the international CISSP certification examination</li> <li>• Security Models, System Security Architecture, Identity &amp; Access Control</li> <li>• Application Security: Business Processes, Web Security/Architectures</li> <li>• Infrastructure: Perimeter Security, TCP/IP Protocol Architecture</li> <li>• Cryptology: cryptanalysis, steganography, applications</li> <li>• Security awareness: training concepts, campaigns, corporate culture</li> <li>• Contract law in the IT environment, data protection and DSGVO</li> </ul>	
<b>Specialities</b>	You can extend the CAS Cybersecurity and Information Risk Management to: DAS Digital Leadership in IT and MAS Information Systems Management.	
<b>Target Group</b>	<ul style="list-style-type: none"> <li>• IT professionals, IT managers</li> <li>• IT security and data protection officers</li> <li>• Auditors, controllers, lawyers with a focus on IT</li> <li>• IT business consultants, IT sales consultants with a focus on security</li> </ul> <p>Sectors: Banks, insurance companies, hospitals, pharmaceuticals, logistics, service providers, media, telecommunications, IT outsourcers, software development, local authorities, federal authorities, NPO/NGO, SME, industry.</p>	
<b>Degree</b>	Certificate of Advanced Studies FHNW Cybersecurity and Information Risk Management, 15 ECTS credits	
<b>Lecturers</b>	<ul style="list-style-type: none"> <li>• Rainer Kessler, swisstec Academy</li> <li>• Johannes Dohren, PwC</li> </ul>	
<b>Dates</b>	Starts on January 11, 2024	
<b>Location</b>	Online	
<b>Costs</b>	7'500 CHF (incl. documents, ISO examination, excl. CISSP examination)	
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