

Information Security Manager with federal diploma («ICTSED»)

ICT Berufsbildung Schweiz has created a high-quality qualification at management level with the «Information Security Manager». This course package prepares you for the core topics of the examination. Benefit from an attractive bundle price.

Duration: 21 days

Price: 18'800.–

Content

1. Onboarding (1 hour)
2. **IT & Cybersecurity Risk Management** (1 day)
 - o Introduction cybersecurity risk management
 - o The impact of cyber-threats
 - o Risk management as part of a broader cyber security management approach
 - o Compliance with cyber security standards
 - o Risk management strategy
 - o Best practice
3. ISO/IEC 27001:2022 Lead Implementer (4 days)
 - o Introduction to ISO/IEC 27001 and initiation of an ISMS
 - o Planning the implementation of an ISMS
 - o Implementation of an ISMS
 - o ISMS monitoring, continuous improvement and preparation for the certification audit
4. ISO/IEC 27001:2022 Lead Implementer Brush-up (0.5 days)
5. ISO 27001 in practice (0.5 days)
 - o Why did we choose ISO 27001?
 - o How did we proceed?
 - o Learnings and recommendations
6. **Project Management Basics for IPMA Level D** (3 days, without exam)
 - o Definition project / project management
 - o Project management procedure models
 - o Project portfolio management
 - o Initiating projects
 - o Planning of projects
 - o Execution and monitoring of projects
 - o Completion of projects
7. **Security Awareness in the company** (0.5 days)
 - o Strategic planning of security awareness measures
 - o Examples of methodical training approaches and concepts
 - o Examples of holistic security awareness programs
 - o Sustainable communication methods and channels
 - o Performance measurement of security awareness measures/KPIs
8. **The new Swiss Federal Act on Data Protection** (1 day)
 - o Data protection principles
 - o Scope
 - o Personal data categories
 - o Profiling
 - o Information requirements (cookies, profiling tools, etc.)
 - o Consent (clickwrapping)
 - o Reporting obligations (process data breaches)
 - o IT security principles (privacy by default and privacy by design)
 - o Sanctions (fines)

- Data subject rights (process descriptions)
- Code of conduct and certification procedures
- Special issues: Cloud computing and foreign storage, commissioned data processing
- 9. Development of data protection concept / DSMS Data protection management system (1 day)
 - Directory of processing activities
 - Data protection impact assessment
 - Privacy policy
- 10. **Cloud Service Governance (for Manager)** (1 day)
 - Cloud services – Service models, architecture models and the cloud reference architecture
 - Cloud services in a business context and governance
 - Cloud and the data life cycle; legal requirements regarding cloud security
 - Security certifications and attestations in the cloud environment
 - Cryptography and key management in clouds; Cloud Access Security Broker (CASB)
 - Cloud services and business continuity, disaster recovery
 - Risks of Cloud Services and the Secure Way into the Cloud
 - Cloud Security Operations, Security Incident Management, Security Testing and Forensics in Cloud Services
- 11. **Cybersecurity – Technical Overview** (2 days)
 - Differentiation between information security, ICT security, cyber security; IT security and OT security, safety & security
 - Lifecycle of data
 - Technology levels – abstraction levels between business process and IT / technology
 - Security architectures – Security models
 - Computer systems – client/server; processor architectures
 - Cryptography
 - Network fundamentals: the OSI model from the physical layer to the application layer
 - Network Security, Physical Security
 - Identity and Access Management (IAM)
 - Security Assessment and Testing
 - Software development security
- 12. **Security Governance and Management** (2 days)
 - Information security governance
 - ICT security organization
 - ICT security architecture
 - Information security metrics, reporting
 - Information security business case, return on security investment
 - Information security incident management
- 13. Exam preparation (4 days)

Key Learnings

- Embedding the security strategy in your company
- Establishing an information security management system (ISMS) based on ISO/IEC 27001
- Running a security program in your organization
- Managing stakeholders
- Raising safety awareness in your company
- Managing events and backing up information
- Identification and assessment of risks
- Defining and coordinating protective measures
- Ensuring the effectiveness of defensive measures
- Knowing and understanding the new requirements of the nFADP

Target audience

This exam preparation course is designed for executives of private companies and public institutions who are responsible for the management of information security and intend to prepare for the Information Security Manager degree with a federal diploma.

In order to carry out the activities of an Information Security Manager professionally, you are familiar with your organisation and its products, processes and information and are able to guarantee appropriate information security.

Certification

The examination is held once a year in November by ICT Berufsbildung and consists of four parts:

- Portfolio work (this is prepared in advance in written form)
- Presentation and expert discussion on the portfolio (30 to 40 minutes)
- Case studies (120 minutes in written form)
- Case simulation (300 minutes practical cases)

When preparing for the portfolio work, you will receive valuable feedback from our expert. He will review your work and give you valuable advice. Please note that there is a maximum of two submissions of all three tasks per participant.

Please refer to the [ICT Berufsbildung](#) website for examination dates.

The examination fee is CHF 3'400.–

Information session

- [Eidg. dipl. Information Security Manager](#)

Additional information



Please also note the information provided by Staatssekretariat für Forschung, Bildung und Innovation (SFBI) for the financing of preparatory courses. You can have your course fees partially refunded, on the condition that you have taken the federal examination. More information can be found [here](#).

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-security/information-security-data-protection/training-course-information-security-manager-with-federal-diploma