

EUROPEAN CYBERSECURITY SKILLS FRAMEWORK (ECSF)

05 | 04 | 2022



PROFILE OVERVIEW



Chief Information Security Officer (CISO)

Manages an organisation's cybersecurity strategy and its implementation to ensure that digital systems, services and assets are adequately secure and protected.



Cybersecurity Strategy



Cybersecurity Policy



Chief Information Security Officer (CISO)



Cyber Incident Responder



Cyber Legal, Policy and Compliance Officer



Cyber Threat Intelligence Specialist



Cybersecurity Architect



Cybersecurity Auditor



Cybersecurity Educator



Cybersecurity Implementer



Cybersecurity Researcher



Cybersecurity Risk Manager



Digital Forensics Investigator



Penetration Tester



Chief Information Security Officer (CISO)

Profile Title	Chief Information Security Officer (CISO)
Alternative Title(s) List of titles under the same profile	Cybersecurity Programme Director Information Security Officer (ISO) Head of Information Security IT Security Officer
Summary statement Indicates the main purpose of the profile.	Manages an organisation's cybersecurity strategy and its implementation to ensure that digital systems, services and assets are adequately secure and protected.
Mission Describes the rationale of the profile.	Defines, maintains and communicates the cybersecurity vision, strategy, policies and procedures. Manages the implementation of the cybersecurity policy across the organisation. Assures information exchange with external authorities and professional bodies.
Main task(s) A list of typical tasks performed by the profile. is tasked to:	<ul style="list-style-type: none">• Define, implement, communicate and maintain cybersecurity goals, requirements, strategies, policies, aligned with the business strategy to support the organisational objectives• Prepare and present cybersecurity vision, strategies and policies for approval by the senior management of the organisation and ensure their execution• Supervise the application and improvement of the Information Security Management System (ISMS)• Educate senior management about cybersecurity risks, threats and their impact to the organisation• Ensure the senior management approves the cybersecurity risks of the organisation• Develop cybersecurity plans• Develop relationships with cybersecurity-related authorities and communities• Report cybersecurity incidents, risks, findings to the senior management• Monitor advancement in cybersecurity• Secure resources to implement the cybersecurity strategy• Negotiate the cybersecurity budget with the senior management• Ensure the organisation's resiliency to cyber incidents• Manage continuous capacity building within the organisation• Review, plan and allocate appropriate cybersecurity resources

Key skill(s) A list of abilities to perform work functions and duties by the profile. Ability to:	<ul style="list-style-type: none">• Understand core organisational business processes• Assess and enhance an organisation's cybersecurity posture• Analyse and implement cybersecurity standards, frameworks, policies, regulations, legislations, certifications and best practices• Manage cybersecurity resources• Develop, champion and lead the execution of a cybersecurity strategy• Influence an organisation's cybersecurity culture• Design, apply, monitor and review Information Security Management System (ISMS) either directly or by leading its outsourcing• Review and enhance security documents, reports, SLAs and ensure the security objectives• Practice ethical cybersecurity organisation requirements• Provide practical solutions to cybersecurity issues• Establish a cybersecurity plan• Communicate, coordinate and cooperate with internal and external stakeholders• Apply relevant standards, best practices and legal requirements for information security• Anticipate required changes to the organisation's information security strategy and formulate new plans• Define and apply maturity models for cybersecurity management• Anticipate future cybersecurity threats, trends, needs and challenges in the organisation• Ability to lead multidisciplinary cybersecurity teams	
Key knowledge A list of essential knowledge required to perform work functions and duties by the profile.	<ul style="list-style-type: none">• Knowledge of cybersecurity and privacy standards, frameworks, policies, regulations, legislations, certifications and best practices• Understanding of ethical cybersecurity organisation requirements• Knowledge of security controls• Knowledge of cybersecurity maturity models• Knowledge of cybersecurity tactics, techniques and procedures• Knowledge of resource management• Knowledge of management practices• Knowledge of risk management frameworks	
e-Competences (from e-CF) For quick access to e-CF Competences go to the e-CF Explorer: https://ecfuserool.itprofessionalism.org/explorer	D.1. Information Security Strategy Development E.3. Risk Management E.4. Relationship Management E.8. Information Security Management E.9. IS-Governance	Level 5 Level 4 Level 3 Level 4 Level 4

PROFILE OVERVIEW



Cybersecurity Educator

Improves cybersecurity knowledge, skills and competencies of humans.



Education and Trainings



Awareness Campaigns



Chief Information Security Officer (CISO)



Cyber Incident Responder



Cyber Legal, Policy and Compliance Officer



Cyber Threat Intelligence Specialist



Cybersecurity Architect



Cybersecurity Auditor



Cybersecurity Educator



Cybersecurity Implementer



Cybersecurity Researcher



Cybersecurity Risk Manager



Digital Forensics Investigator



Penetration Tester

Profile Title	Cybersecurity Educator
Alternative Title(s) List of titles under the same profile	Cybersecurity Awareness Specialist Cybersecurity Trainer Professor of Cybersecurity Lecturer in Cybersecurity
Summary statement Indicates the main purpose of the profile.	Improves cybersecurity knowledge, skills and competencies of humans.
Mission Describes the rationale of the profile.	Designs, develops and conducts awareness, training and educational programmes in cybersecurity and data protection-related topics. Uses appropriate teaching and training methods, techniques and instruments to communicate and enhance the cybersecurity culture, capabilities, knowledge and skills of human resources. Promotes the importance of cybersecurity and consolidates it into the organisation.
Main task(s) A list of typical tasks performed by the profile. is tasked to:	<ul style="list-style-type: none"> • Develop, update and deliver cybersecurity and data protection curricula and educational material for training and awareness based on content, method, tools, trainees need • Organise, design and deliver cybersecurity and data protection awareness-raising activities, seminars, courses, practical training • Monitor, evaluate and report training effectiveness • Evaluate and report trainee's performance • Finding new approaches for education, training and awareness-raising • Design, develop and deliver cybersecurity simulations, virtual labs or cyber range environments • Provide guidance on cybersecurity certification programs for individuals • Continuously maintain and enhance expertise; encourage and empower continuous enhancement of cybersecurity capacities and capabilities building

Key skill(s) A list of abilities to perform work functions and duties by the profile. Ability to:	<ul style="list-style-type: none"> • Identify needs in cybersecurity awareness, training and education • Analyse and deliver cybersecurity education and training • Design, develop and deliver cybersecurity curricula and programmes to meet the organisation and individuals' needs • Develop advanced cybersecurity exercises and scenarios for simulations, virtual or cyber range environments • Provide training towards cybersecurity and data protection professional certifications • Deliver training utilising various training resources • Develop evaluation programs for the awareness, training and education activities • Communicate or author publications, reports, training material • Identify and select appropriate pedagogical approaches for the intended audience • Motivate and incentivise learners 	
Key knowledge A list of essential knowledge required to perform work functions and duties by the profile.	<ul style="list-style-type: none"> • Knowledge of pedagogical methods • Advanced knowledge of cybersecurity awareness, education and training programme development • Knowledge of cybersecurity-related professional certifications • Knowledge of cutting-edge methods, tools and techniques on hands-on cybersecurity education and training • Knowledge of cybersecurity-related legal framework, regulations, standards • Knowledge of cybersecurity frameworks, methodologies, controls and best practices 	
e-Competences (from e-CF) For quick access to e-CF Competences go to the e-CF Explorer: https://ecfusertool.itprofessionalism.org/explorer	D.3. Education and Training Provision D.9. Personnel Development E.8. Information Security Management	Level 3 Level 3 Level 3

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