



IN PURSUIT OF **DIGITAL TRUST**

**Case Study – Individual Career Decision Making using
the ECSF Framework and ISACA Credentials and
Community**

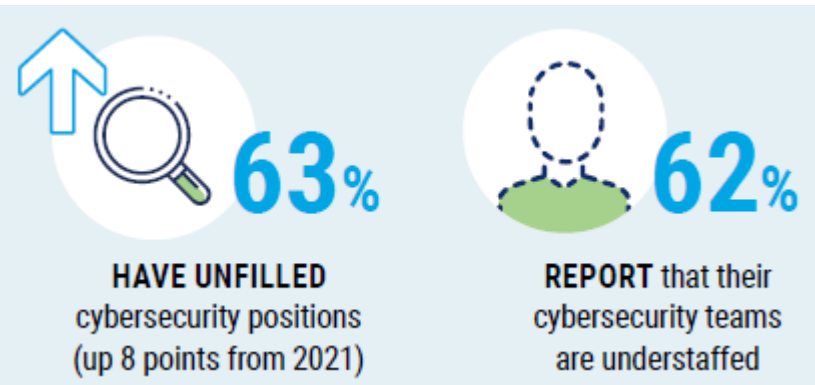
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ISACA State of Cybersecurity 2022



TOP SKILLS GAPS:

54% Soft skills

52% Cloud computing
knowledge

34% Security controls
experience



Retention Problems Worsening



REPORT DIFFICULTIES
retaining qualified
cybersecurity professionals
(up 7 points from 2021)



TOP FIVE REASONS

Cybersecurity Professionals are leaving:

- 1** **59%** Recruited by other companies
- 2** **48%** Poor financial incentives in terms of salary or bonus
- 3** **47%** Limited promotion and development opportunities
- 4** **45%** High work stress levels
- 5** **34%** Lack of management support

Sabine's Career Goal



Sabine

- ✓ Has university degree
- ✓ Working as SOC analyst
- ✓ Dreams of becoming C-suite cybersecurity professional
- ✓ Researched the ECSF PROFILE 1 and identified gaps in her knowledge
- ✓ Met with her mentor

Current state:

PROFILE #7
INCIDENT RESPONDER



Future state:

PROFILE #1
CHIEF INFORMATION SECURITY OFFICER
(CISO)

Inventory of CISO Responsibilities and Requirements

CISO responsibilities:



- Defines, maintains and communicates the cybersecurity vision, strategy, policies, and procedures and manages implementation across the organization.
- Governs cybersecurity related activities across the organisation.
- Manages relationships with external authorities and professional bodies.

Requirements to move into a CISO role:

- Understanding of ethical cybersecurity organization requirements
- Knowledge of:
 - cybersecurity and privacy standards, frameworks, policies, regulations, legislations, certifications and best practices
 - security controls
 - cybersecurity maturity models
 - cybersecurity tactics, techniques and procedures
 - resource management
 - management practices
 - risk management frameworks

Sabine's Path to Meeting her Goals

1 Sabine's mentor recommends **ISACA membership and certifications** to reach her goals

2 Sabine attends a local ISACA meeting and **connects** with chapter leadership

3 Sabine **creates a plan** to earn a Certified Information Security Manager (CISM) certification

4 Sabine takes advantage of global ISACA **membership resources**

5 A fellow chapter member **recruits** Sabine as an information security analyst



Sabine's Career Path



Sabine

- ✓ Has been an ISACA member for seven years
- ✓ Earned her CISM certification; promoted to information security manager
- ✓ Now a director of information security
- ✓ Leverages ISACA resources to help meet her goals
- ✓ Has outlined steps to take to get the C-suite and plans to hold a CISO role within five years

Career Path (so far):

SOC Analyst

Information Security Analyst

Information Security Manager







Director of Information Security

Appendix





ISACA has studied the European Cybersecurity Skills Framework and has mapped it to ISACA credentials for assisting cybersecurity career paths in Europe. **The credentials referenced in the following slides can be combined with ISACA® Certified in Emerging Technology™ (CET) Certification to provide vertical expertise in any of the professional titles on AI, Blockchain, Cloud and IoT**
(<https://www.isaca.org/credentialing/cet>)







ISACA mapping to ECSF

ECSF Profile	ISACA Credential	ECSF Profile	ISACA Credential
<p>#1 Chief Information Security Officer (CISO)</p>	 <p>Certified Information Security Manager (CISM) https://www.isaca.org/credentialing/cism</p>	<p>#3 Cyber Legal, Policy & Compliance Officer</p>	  <p>Certified Data Privacy Solutions Engineer (CDPSE) https://www.isaca.org/credentialing/certified-data-privacy-solutions-engineer <i>and/or</i> Certified Information Security Manager (CISM) https://www.isaca.org/credentialing/cism</p>
<p>#2 Cyber Incident Responder</p>	 <p>CSX Cybersecurity Practitioner (CSX-P) https://www.isaca.org/credentialing/csx-p</p>	<p>#4 Cyber Threat Intelligence Specialist</p>	   <p>CSX Cybersecurity Practitioner (CSX-P) https://www.isaca.org/credentialing/csx-p <i>and/or</i> Certified in Information System Risk and Control (CRISC) https://www.isaca.org/credentialing/crisc <i>and/or</i> IT Risk Fundamentals Certificate https://www.isaca.org/credentialing/it-risk-fundamentals-certificate</p>

ISACA mapping to ECSF

ECSF Profile	ISACA Credential	ECSF Profile	ISACA Credential
#5 Cybersecurity Architect	 <p>Information Technology Certified Associate (ITCA) https://www.isaca.org/credentialing/itca <i>or</i> Cybersecurity Fundamentals Certificate https://www.isaca.org/credentialing/itca/cybersecurity-fundamentals-certificate <i>and</i> Certified Data Privacy Solutions Engineer (CDPSE) https://www.isaca.org/credentialing/certified-data-privacy-solutions-engineer</p>	#7 Cybersecurity Educator	 <p>Cybersecurity Fundamentals Certificate https://www.isaca.org/credentialing/itca/cybersecurity-fundamentals-certificate <i>and/or (for more in depth expertise)</i> Certified Information Security Manager (CISM) https://www.isaca.org/credentialing/cism</p>
#6 Cybersecurity Auditor	 <p>Certified Information Systems Auditor (CISA) https://www.isaca.org/credentialing/cisa <i>and/or</i> Cybersecurity Audit Certificate https://www.isaca.org/credentialing/cybersecurity-audit-certificate <i>and for more specialization on the Cloud</i> Certificate in Cloud Auditing Knowledge (CCAK) https://www.isaca.org/credentialing/certificate-of-cloud-auditing-knowledge</p>	#8 Cybersecurity Implementer	 <p>Cybersecurity Fundamentals Certificate https://www.isaca.org/credentialing/itca/cybersecurity-fundamentals-certificate <i>and/or</i> Certified Information Security Manager (CISM) https://www.isaca.org/credentialing/cism</p>

ISACA mapping to ECSF

ECSF Profile	ISACA Credential	ECSF Profile	ISACA Credential
<p>#9 Cybersecurity Researcher</p>	 <p>CSX Cybersecurity Practitioner (CSX-P) https://www.isaca.org/credentialing/csx-p <i>and/or</i> Certified Information Security Manager (CISM) https://www.isaca.org/credentialing/cism</p>	<p>#11 Digital Forensics Investigator</p>	 <p>CSX Cybersecurity Practitioner (CSX-P) https://www.isaca.org/credentialing/csx-p</p>
<p>#10 Cybersecurity Risk Manager</p>	 <p>Certified in Risk and Information Systems Controls (CRISC) https://www.isaca.org/credentialing/crisc</p>	<p>#12 Penetration Tester</p>	 <p>CSX Cybersecurity Practitioner (CSX-P) https://www.isaca.org/credentialing/csx-p</p>



<https://www.isaca.org/training-and-events/careers-home/career-pathway/european-cybersecurity-skills-framework-and-isaca-credentials>