



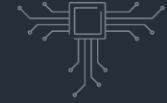
Leonardo Cyber & Security Solutions

Closing the professional skills gap

LEONARDO CONTRIBUTION FOR A
CYBER SAFER & MORE SECURE EUROPEAN UNION

2nd European Cybersecurity Skills Conference

Segovia, 21 September 2023



Electronics



Helicopters



Aircraft



Cyber &
Security



Space



Unmanned
Systems



Aerostructures

About me



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PhD in Physics

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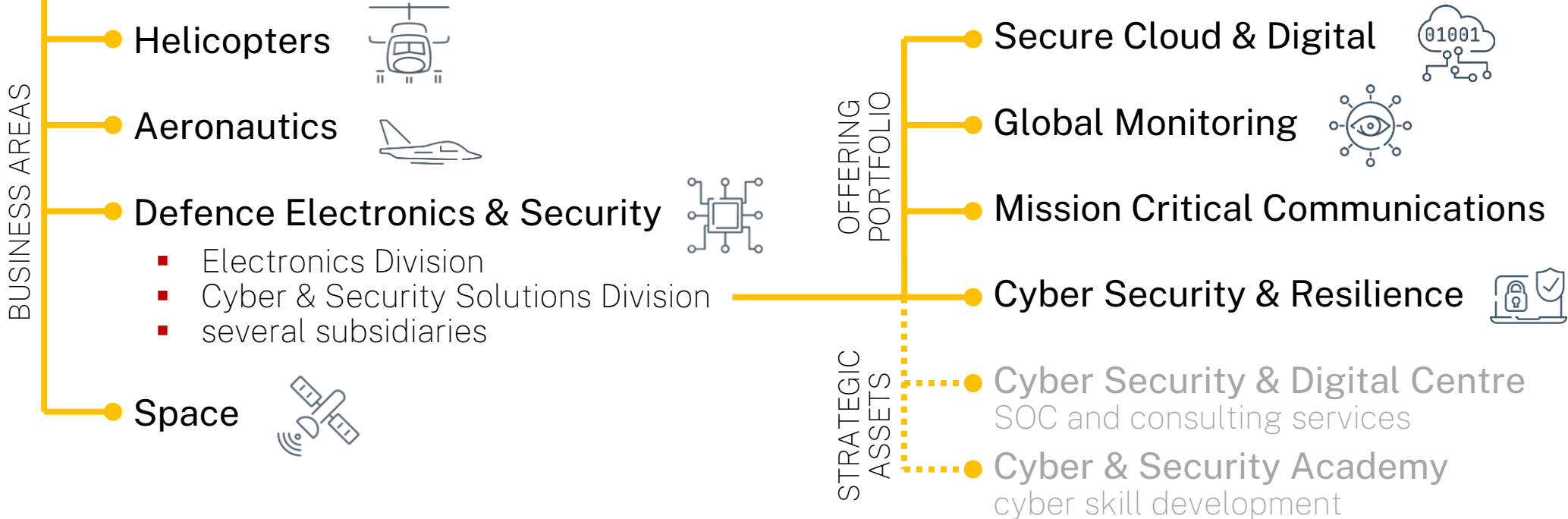
Cybersecurity in Leonardo since 2003



About Leonardo



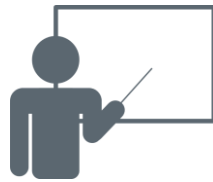
Leonardo is Italy's leading industrial company and one of the world's top Aerospace, Defence and Security firms, with an integrated offering of multi-domain operational capabilities for military and civil applications.



LEONARDO
CYBER &
SECURITY
ACADEMY



About Leonardo Cyber & Security Academy



LEARNING SERVICES

- Standard & custom courses
- Cybersecurity awareness
- Cyber exercise and white phishing



TECHNICAL PLATFORMS

- Cyber Trainer (LMS)
- Cyber Range
- Cyber Game (Capture the flag)



FACILITIES

- Human-tech: comfort & technology
- High-tech classrooms
- Relax area, arcade games
- Recording studio



Cybersecurity skills gap

Non-cybersecurity role profiles lack skills too!

Cyber & information security training is needed at several levels in an organisation, not only by cybersecurity professionals.



A cybersecurity education organisation should address several use cases.

Profile	Expected outcomes from cyber & information security training
User	<ul style="list-style-type: none"> Secure behaviour in usage of PCs, phones, email, social media etc.
Manager (non-technical)	<ul style="list-style-type: none"> Commitment to cyber and information security Awareness of company risks when handling sensitive and critical information
CISO IT Manager (CIO)	<ul style="list-style-type: none"> Knowledge of all relevant cyber and information security issues and best practices Assurance of the organisation's information by means of processes, people and technologies Competent management of suppliers of IT and cybersecurity services
IT administrator Developer	<ul style="list-style-type: none"> Secure development and management of networks, systems, software, data Secure user and customer support Competent management of suppliers of IT and cybersecurity services
Legal Security	<ul style="list-style-type: none"> Awareness of the organisation's security compliance expectations Integration of cyber risk with enterprise risks
Cybersecurity specialist	<ul style="list-style-type: none"> Correct and aware administration of cybersecurity technologies and execution of procedures Understanding and management of cybersecurity operations and processes Competent management of suppliers of IT and cybersecurity services



Our framework

Competence areas

The Cyber & Security Academy specialistic course catalogue builds upon three main tracks:



PREVENTION GOLD TRACK

Cyber secure infrastructure



DEFENCE FIRE TRACK

Cybersecurity in action — offence vs. defence



GOVERNANCE IRON TRACK

Security governance, risk & compliance

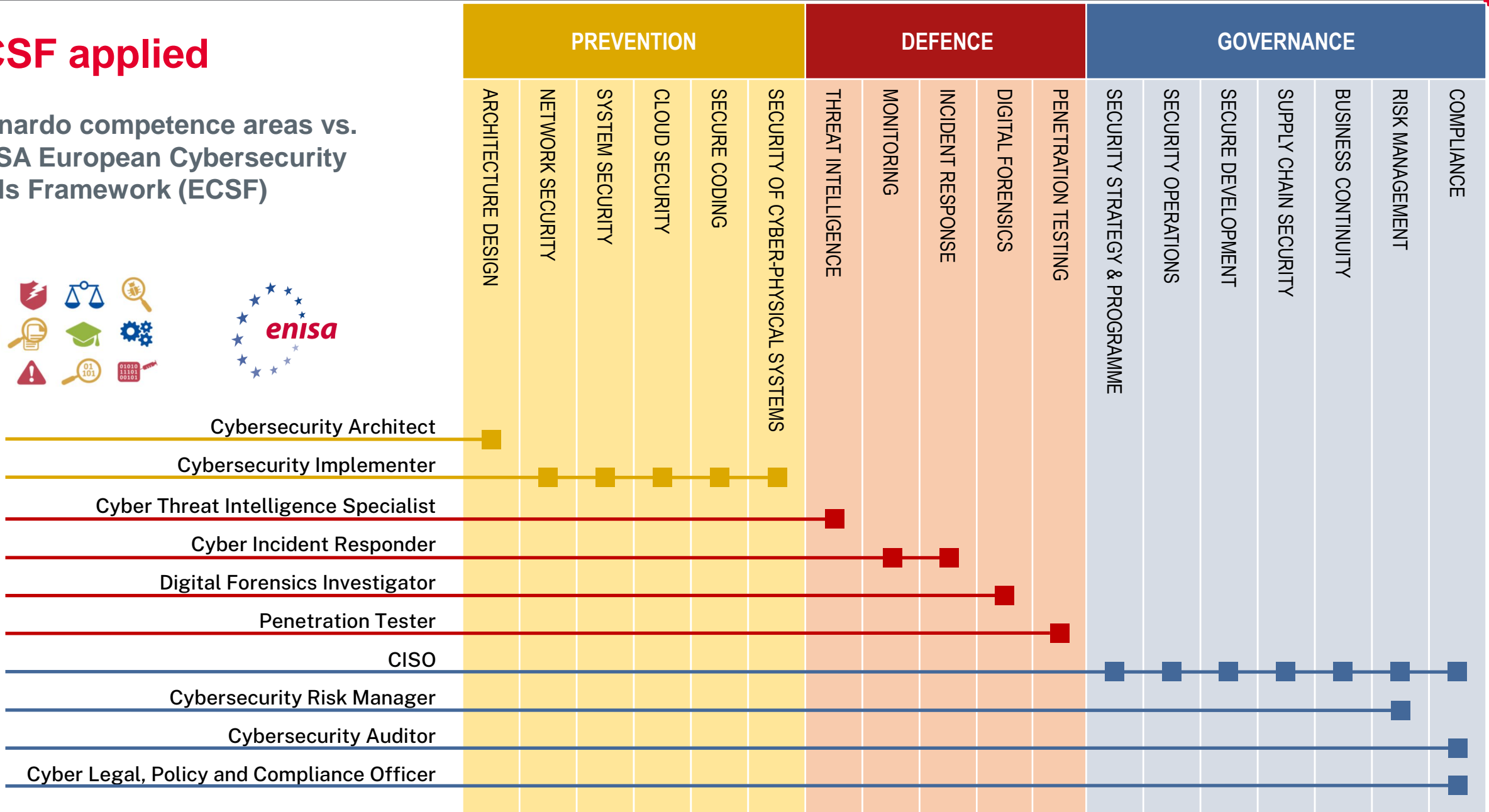
PREVENTION						DEFENCE					GOVERNANCE						
ARCHITECTURE DESIGN	NETWORK SECURITY	SYSTEM SECURITY	CLOUD SECURITY	SECURE CODING	SECURITY OF CYBER-PHYSICAL SYSTEMS	THREAT INTELLIGENCE	MONITORING	INCIDENT RESPONSE	DIGITAL FORENSICS	PENETRATION TESTING	SECURITY STRATEGY & PROGRAMME	SECURITY OPERATIONS	SECURE DEVELOPMENT	SUPPLY CHAIN SECURITY	BUSINESS CONTINUITY	RISK MANAGEMENT	COMPLIANCE
RES	RES	RES	RES	RES	RES	DEF	DEF	DEF	DEF	DEF	MGT	MGT	MGT	MGT	MGT	MGT	MGT
A	N	S	C	D	P	I	M	H	F	P	P	O	D	S	B	R	C

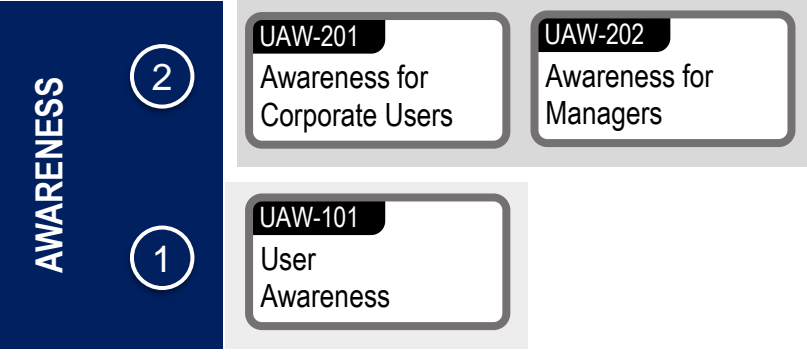
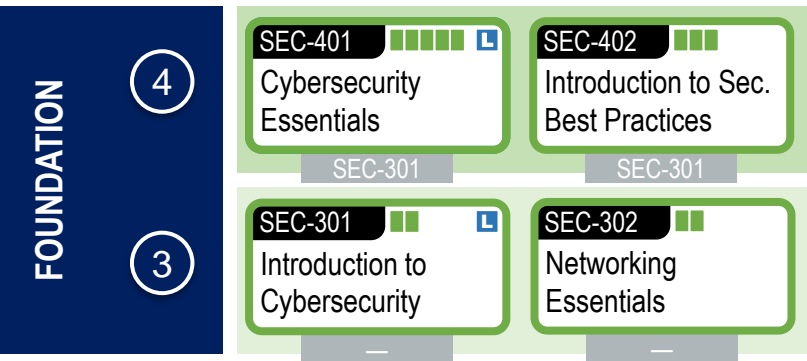
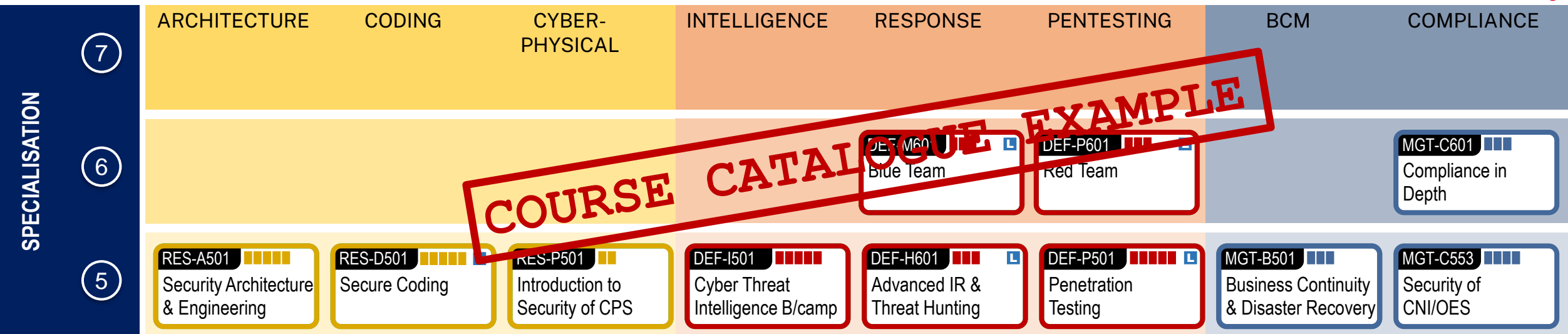
Each **track** encompasses several **competence areas** identified by a unique code
 Each competence area comprises several **competences** (not represented here)



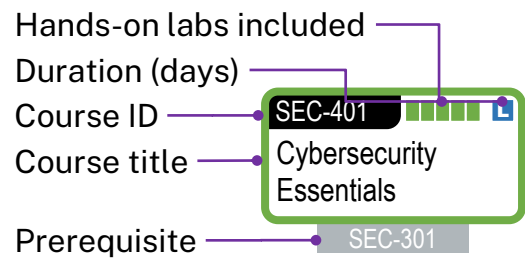
ECSF applied

Leonardo competence areas vs. ENISA European Cybersecurity Skills Framework (ECSF)





- 7 **Warrior level**
- 6 **Advanced level**
- 5 **Intermediate level**
- 3 **Foundation level**
- 1 **User level**



- **IRON TRACK** [GOVERNANCE] » Security governance, risk & compliance
- **FIRE TRACK** [DEFENCE] » Cybersecurity in action – offence vs. defence
- **GOLD TRACK** [PREVENTION] » Cyber secure infrastructure
- **GREENFIELD TRACK** » A foundation for any cyber specialist
- **HUMAN TRACK** » Cyber awareness for non-specialists





THANK YOU
FOR YOUR ATTENTION

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