

Curriculum

To be reviewed by Feb. 2026	Activity number 262	Cyber Defence policy on national and international levels	ECTS 2
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CORRELATION WITH CTG / MTG TRAs	EQUIVALENCES
CTG / MTG TRA on Cyber	<ul style="list-style-type: none"> <i>Specialised cyber course, at strategic and tactical levels</i> <i>Linked with the strategic objectives of Pillar 2 of the EU's Cybersecurity Strategy for the Digital Decade [16.12.2020 JOIN (2020)]</i>

<p>Target audience</p> <p><i>Participants should be mid-ranking to senior officials from the defence and security sector dealing with strategic aspects of cyber security and cyber defence from EU MSs, relevant EU Institutions and Agencies. They should be either working in key positions or have a clear potential to achieve leadership positions, in particular in the field of Cyber Security or Defence. Course participants must be available for the entire course and should be ready to bring in their specific expertise and experience throughout the course.</i></p> <p>Open to:</p> <ul style="list-style-type: none"> EU Member States / EU Institutions Bodies and Agencies Candidate Countries Third countries 	<p style="text-align: center;"><u>Aim</u></p> <p>The aim is to provide course participants with the conceptual framework to facilitate strategic thinking about cyber defence and develop understanding on how to integrate cyber considerations into national as well as international security policy and strategy formulation.</p> <p>The training will provide the participants with basic skills and knowledge to analyse and design proper policy framework and strategy for cyber defence. The curriculum has been designed to provide an integrated overview of contemporary geopolitical affairs and security issues to enable students to think creatively and critically about issues of strategic importance.</p>
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Learning Outcomes	
Knowledge	L01- Quote key features of the modern/future security environment L02- Define cyber domain as key enabler and tool in hybrid conflicts L03- Define the dependency of the of the military domain on communication and information systems & networks L04- Define the growing role of the cyberspace as a web of critical asset and its relation to the national security L05- Understand basic technological aspects of cybersecurity

	L06- Define the validity of cyberspace in the creation, storage, modification, exchange and exploitation of information
Skills	L07- Classify the instruments of national power and relate them to the cyberspace effects L08- Analyse the strategic aspects of cyber security in the national security environment L09- Apply cyberspace terminology, concepts, issues, and components L010- Relate cybersecurity considerations with the information environment L011- Analyse various aspects of cybersecurity and relate their effects to national security
Responsibility and Autonomy	L012- Evaluate cyber space policies and generate strategic concepts and approaches to cyber defence L013- Assess the role of cyber defence in national and international security contexts L014- Determine the appropriate measures to ensure the national security in digital era

Evaluation and verification of learning outcomes

The course is evaluated according to the Kirkpatrick model, particularly level 1 evaluation (based on participants' satisfaction with the course) and level 3 evaluation (assessment of participants' long-term change in behaviour after the end of the course). Evaluation feedback is given in the level 1 evaluation of the residential modules.

In order to complete the course, participants have to accomplish all the learning objectives, and are evaluated on the basis of their active contribution to the residential modules, including their teamwork sessions and practical activities, and on their completion of the eLearning phases. Course participants must complete the autonomous knowledge units (AKUs) and pass the tests (mandatory), scoring at least 80% in the incorporated test/quiz. However, no formal verification of the learning outcomes is provided for; the proposed ECTS is based solely on participants' coursework.

The Executive Academic Board takes these factors into account when considering whether to award certificates to participants. Module leaders provide an evaluation report for each residential module. The Course Director is responsible for overall coordination, with the support of the ESDC Secretariat, and drafts the final evaluation report, which is presented to the Executive Academic Board.

Course structure

The residential module is held over 5 days.

Main Topic	Suggested Working Hours (required for individual learning)	Suggested Contents
1. Key concepts: Cyberspace, cybersecurity, cyber defence	6(6)	1.1 Terminology and key concepts 1.2 Digital revolution and its impact 1.3 Cyber as an operational domain 1.4 Threat actors in cyberspace 1.5 International relations in cyberspace 1.6 International law and inter-state relations in cyberspace 1.7 Cyber-enabled influence operations
2. Practical aspects of cybersecurity: vulnerabilities and responses	4	2.1 Anatomy of cyberattacks 2.2 Cyber targeting and layers of defence 2.3 CEMA - Cyber-Electromagnetic Activities 2.4 Examples of defensive measures 2.5 Cyber. considerations in real war
3. Cyber policy dilemmas: deterrence, defence or defence foreword?	8(4)	3.1 Analysis of the cyberspace policy and strategy 3.2 Military aspect of cyber considerations 3.3 Definition of cyberspace superiority 3.4 Joint concept for cyberspace 3.5 International law in relation to these dilemma's
4. Technology aspect of cyber defence and information security	4	4.1 Confidentiality, Integrity, Availability 4.2 Basics of security engineering 4.3 Information security risk 4.4 Reasons for Security Vulnerability Technology aspect
5. Cyber considerations in national and international security policy	8(4)	5.1 Cyber and other elements of national power 5.2 The role of private sector in cyber defence 5.3 Threat Environment 5.4 Private Sector Roles and Missions

TOTAL	30(14)	
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<p style="text-align: center;"><u>Materials</u></p> <p>Required:</p> <ul style="list-style-type: none"> • AKU 2: European Global Strategy • AKU 107: Awareness course on Cyber Diplomacy • Council Conclusion on EU Policy on Cyber Defence (22.05.2023) • EU Policy on Cyber Defence, JOIN(22) 49 final (10.11.2022) • <p>Recommended:</p> <ul style="list-style-type: none"> • AKU 55: Strategic Compass • AKU 6: CSDP Decision Making, • AKU 106a: Adversarial behavior • AKU 106b: The landscape of hybrid threats • AKU106e: Hybrid warfare • Directive (EU) 2022/2555 of the European Parliament and of the Council of 14 December 2022 concerning measures for a high common level of cybersecurity across the Union (NIS 2) • COUNCIL DECISION (CFSP) 2020/1127 of 30 July 2020 amending Decision (CFSP) 2019/797 concerning restrictive measures against cyber-attacks threatening the Union or its Member States • EU's Cybersecurity Strategy for the Digital Decade (December 2020) • The EU Cybersecurity Act (June 2019) • The EU Cyber Diplomacy Toolbox (June 2017) 	<p style="text-align: center;"><u>Methodology</u></p> <p>The course is based on the following methodology: lectures, panels, workshops, exercises</p> <p style="text-align: center;"><u>Additional information</u></p> <p>Pre-course questionnaire on learning expectations and possible briefing topic form specific area of expertise may be used.</p> <p>All course participants have to prepare for the residential module by going through the relevant eLearning preparatory phase, which is mandatory. The materials proposed for supplementary (eLearning) study will reflect current developments in the field of cybersecurity/cyber-defence in general and EU policies in particular. Course participants must be willing to contribute with their specific expertise and experience throughout the course.</p> <p>The Chatham House Rule is applied during all residential modules of the course: "participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed".</p>
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