



Common Module Social Engineering Protection

Module Description

Implementation Group

Doc.: ESDC/2021/247 **Date:** 5 Nov 2021

Origin: Portuguese Military Academy

Country	Institution	Non-Common Module	ECTS
PT	Portuguese Military Academy	Social Engineering Protection	2.0

Service ALL	Minimum Qualification of Instructors • Officers and Civilian Lecturers:		
ALL	 English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG Level 3 		
Language	 Relevant experience in social engineering (SE) risks and human firewall construction. 		
English	o Relevant experience in training on the different aspects of SE.		
SQF	Competence area - Military technician		
MILOF	Learning area - C4ISR systems & cyber defence		
	Organisation level – Single Arm/Branch / Single Service		

Prerequisites for international participants:

- English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2.
- At least 2 years of national (military) higher education.

Goals of the Module

- Explain the characteristics of cyber security specifics to the branch/service
- Learn about cyber-attacks: fundamentals of SE and its attacking methods.
- Theoretical aspects of cybersecurity policies and awareness programmes within the cyber protection systems and future development and trends in SE protection.

səi	Know- ledge	Describe how a SE attack develops based on SE risks and the associated risk for the organisation.
ющ		Explain how the human firewall is created and his/her role in this line of defence.
outcomes	Skills	Act as an active element in the human firewall (detect an attack, stop it, and report it to the lines of defence).
ing		Creation/change of security policies according to the risks of SE attacks.
Learni	Responsi bility and autonomy	 Make decisions in line with the cyber security human firewall policy. Takes responsibility for reporting new vulnerabilities in improving security policies and awareness programs.

Verification of learning outcomes

Observation:

- Through the use of quizzes, online pools, and case studies, students can demonstrate the acquisition of knowledge.
- o Group activities requiring presentations of teamwork results.
- During some practical tasks students are evaluated to verify their performance, namely in case studies' solutions.
- **Evaluation:** Group presentations of the case study deliverables that will run through the entire module, in a chain of systematic construction on the previous work.
- Test: Written exam at the end of the module.

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Draft: Carlos Alexandre	02 nd June 2021
Revised by Col Assoc. Prof. Harald Gell, PhD / Chairman Implementation Group	07 th June 2021
Revised Lt. Col. Enrico Spinello / Chairman LoD 8	13 th June 2021
Revised: Carlos Alexandre	16 th June 2021
Approved as "Common" by the Implementation Group	08th September 2021
Revised according to SQF MILOF by CAPT (N) N. Dimitrov and Assoc. Prof. N. Karadimas / Chairpersons LoD 2/8	20 th November 2024



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		Module Details
Main Topic	Recom- mended WH	Details
SE: introduction and concepts	1	SE: main concepts and definitionsSE in information warfareSE attacks
Information collection and intelligence production	2	 SE process Information collection Case Study (Chief Executive Officer (CEO) fraud attack – phase 1 and 2)
Attack planning	3	 Psychological vulnerabilities (reciprocity, scarcity, authority, consistency, liking, and consensus) Pretexting Phishing, vishing, and smishing case studies Attack matrix Case study (CEO fraud attack – phase 3)
Security policies	3	 The construction of the human firewall Risk analysis Policy setting Incident reporting channels (information systems security, physical security, and fraud) Case study (CEO fraud attack – phase 4)
Awareness programmes	3	 Awareness tools Resistance training Organisation pain Case study (CEO fraud attack – Phase 5)
Final group assignment presentation & wrap-up	2	Group presentations Wrap up
Final test	1	
Total	15	
Additiona	l hours (WH) to increase the learning outcomes
Self-studies	20	 Reflection of the topics issued. Preparation for the upcoming lessons and for exam(s).
Group assignment preparation	15	 Work group discussions Preparation of deliverables for each phase of the case study Development of presentation/final report
Total WH	50	The detailed amount of hours for the respective main topic is up to the course director according to national law or the home institution's rules. During which topic(s) the syndicate elaborations and presentations will take place is up to the course director. See in the appendix hereinafter a proposal for the estimated hours and activities for each main topic.

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A	PPENDIX		
Main	Recommended	Syndicate Work	
Topic	WH	Activity	Estimated WH
SE: introduction and concepts	1	Initial quiz	15 min
Information collection and intelligence production	2	Online pool Case study	15 min 30 min
Attack planning	3	Online pool Case study	15 min 30 min
Security policies	3	Online pool Case study	15 min 30 min
Awareness programmes	3	Online pool Case study	15 min 30 min
Final group assignment presentation & wrap up	2	Online pool	n/a
Final test	1	n/a	n/a
Total	15		

List of Abbreviations:

CEFR Levels	B1, B2
Common European Framework of Reference for Languages	CEFR
Chief Executive Officer	CEO
European Credit Transfer and Accumulation System	ECTS
North Atlantic Treaty Organisation	
Portugal	
Social Engineering	SE
Standardization Agreement	
Working hour	