





## Non-Common Module Social Engineering Protection

Module Description

Implementation Group

Doc.: 2021/xxx Date: DD MM YYYY

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	<ul> <li>English: Common European Framework of Reference for Languages (CEFR)</li> <li>Level B2 or NATO STANAG Level 3</li> </ul>	
Language English	<ul> <li>Relevant experience in social engineering (SE) risks and human firewall construction.</li> <li>Relevant experience in training on the different aspects of SE.</li> </ul>	

#### 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.

#### **Contents of the Module**

- Multiple variables that comprises SE risks.
- The SE attack cycle (information collection, intelligence production and attack definition).
- The construction of the human firewall (security policies and awareness programmes).

Learning outcomes	Know- ledge	Knows the principles of SE risks (assets; threats; vulnerabilities and countermeasures).
		Understands how a social engineering attack develops and the associated risk for the organisation.
		Knows how the human firewall is created and his/her role in this line of defence.
	Skills	• Is able to be an active element in the human firewall (detect an attack, stop it and report it to the lines of defence).
		<ul> <li>Is able to support the creation/change of security policies according to the risks of SE attacks.</li> </ul>
		<ul> <li>Is able to collaborate in the creation and dissemination of awareness programmes.</li> </ul>
Le	Respon-	Actively takes responsibility for being an element of the human firewall.
	sibility and auto- nomy	Takes responsibility to report new vulnerabilities to the following lines of defence and participate in improving security policies and awareness programs.
		Examines the work environment and promotes a culture of security against SE attacks within the organization.

#### 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 June, 2021			
Revised by Col Assoc. Prof. Harald Gell, PhD / Chairman Implementation Group				
Revised Lt. Col. Enrico Spinello / Chairman LoD 8	13 June 2021			
Revised: Carlos Alexandre				
Approved as "Common" by the Implementation Crown	XX XX XX			







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Module Details			
Main Topic	Recom- mended WH	Details	
SE: introduction and concepts	1	<ul> <li>SE: main concepts and definitions</li> <li>SE in information warfare</li> <li>SE attacks</li> </ul>	
Information collection and intelligence production	2	<ul> <li>SE process</li> <li>Information collection</li> <li>Case Study (Chief Executive Officer (CEO) fraud attack – phase 1 and 2)</li> </ul>	
Attack planning	3	<ul> <li>Psychological vulnerabilities (reciprocity, scarcity, authority, consistency, liking and consensus)</li> <li>Pretexting</li> <li>Phishing, vishing and smishing case studies</li> <li>Attack matrix</li> <li>Case study (CEO fraud attack – phase 3)</li> </ul>	
Security policies	3	<ul> <li>The construction of the human firewall</li> <li>Risk analysis</li> <li>Policy setting</li> <li>Incident reporting channels (information systems security, physical security and fraud)</li> <li>Case study (CEO fraud attack – phase 4)</li> </ul>	
Awareness programmes	3	<ul> <li>Awareness tools</li> <li>Resistance training</li> <li>Organisation pain</li> <li>Case study (CEO fraud attack – Phase 5)</li> </ul>	
Final group assignment presentation & wrap up	2	Group presentations     Wrap up	
Final test	1		
Total	15		
Additional hours (WH) to increase the learning outcomes			
Self-studies	20	<ul><li>Reflection of the topics issued.</li><li>Preparation for the upcoming lessons and for exam(s).</li></ul>	
Group assignment preparation	15	<ul> <li>Work group discussions</li> <li>Preparation of deliverables for each phase of the case study</li> <li>Development of presentation/final report</li> </ul>	
Total WH	50	The detailed amount of hours for the respective main topic is up to the course director according to national law or 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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Draft: Carlos Alexandre	02 June, 2021
Revised by Col Assoc. Prof. Harald Gell, PhD / Chairman Implementation Group	
Revised Lt. Col. Enrico Spinello / Chairman LoD 8	
Revised: Carlos Alexandre	16 June 2021
Approved as "Common" by the Implementation Group	







## Non-Common Module **Social Engineering Protection**

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APPENDIX			
Main	Recommended WH	Syndicate Work	
Торіс		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:**

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