

	untry PT I	InstitutionNon-Common ModuleECTSPortuguese Military AcademySocial Engineering Protection2.0				
Lan	rvice ALL guage glish	Minimum Qualification of Instructors Officers and Civilian Lecturers: • English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG Level 3 • Relevant experience in social engineering (SE) risks and human firewall construction. • Relevant experience in training on the different aspects of SE.				
• E F c	English: C Reference or NATO \$	 common European Framework of a for Languages (CEFR) Level B1 STANAG Level 2. years of national (military) higher 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). 				
es	Know- ledge	Inderstands how a social engineering attack develops and the associated risk.				
Learning outcomes	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). Is able to support the creation/change of security policies according to the risks of SE attacks. Is able to collaborate in the creation and dissemination of awareness programmes.				
Le	Respon sibility and auto- nomy	Actively takes responsibility for being an element of the human firewall. 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.
- $\circ~$ Group activities requiring presentations of teamwork results.
- $\circ\;$ 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.

 Page 1 of 3
 02 June, 2021

 Draft: Carlos Alexandre
 02 June, 2021

 Revised by Col Assoc. Prof. Harald Gell, PhD / Chairman Implementation Group
 07 June 2021

 Revised Lt. Col. Enrico Spinello / Chairman LoD 8
 13 June 2021

 Revised: Carlos Alexandre
 16 June 2021

 Approved as "Common" by the Implementation Group
 08 September 2021



Module Description

 Implementation Group

 Doc.:
 ESDC/2021/247

 Date:
 5 Nov 2021

 Origin:
 Portuguese Military Academy

Module Details								
Main Topic	Recom- mended WH	Details						
SE: introduction and concepts	1	 SE: main concepts and definitions SE in information warfare SE 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 presentationsWrap up						
Final test	1							
Total	15							
Additiona	I 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 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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Non-Common Module Social Engineering Protection

Module Description

Implementation GroupDoc.:ESDC/2021/247Date :5 Nov 2021Origin:Portuguese Military Academy

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
ECTS	European Credit Transfer and Accumulation System
NATO	North Atlantic Treaty Organisation
PRT	Portugal
SE	Social Engineering
STANAG	Standardization Agreement
WH	Working hour

Page 1 of 3	
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