

MODULE 4

TRAINING COURSE Bridging the gap between Higher Education and the labour market

Module 4	Online Security & Data Protection				
Duration	180'				
Program contents	ents 4.1. Common threats 4.2. Cyber-hygiene				
	4.3.	Personal protection			
	4.4.	Password management			
Expected outcomes	by the challen mediale in participante and expected ter				
	 understand the risk of the cyber-space be able of identifying common threats learn and apply the best practices of cyber-hygiene understand the importance of creating strong passwords 				
	- understand the importance of using multi-factor authentication				
	- understar	nd the core features of certified-based authentication			
Training	MIGG Method (MIGG : Méthode d' Intégration Guidée par le Groupe) +				
methodology	gamified (game-based) experience				

SESSION PROGRAM				
Activity	Time/duration			
Topic introduction: Online security & Data protection (5')	90'			

- 2. Theoretical background (expositive)
 - 2.1. Common threats: malware, phishing, social engineering, among others (15').
 - 2.2. Cyber-hygiene: best practices (15').
- 3. Self-protecalso be presented, namelycused on password management)
 - 3.1. Risks of weak password: understanding the impact of different attacks (15')
 - 3.2. Recommendations to define strong passwords (10')
- 4. More robust authentication
 - 4.1. Multi-factor authentication (15')
 - 4.2. Certificate-based authentication (15')
- 5. Group reconstruction (1st part)
 Ask teachers to write down the oral intervention individually, from memory, describing the main concepts (15')

 6. Group reconstruction (2nd part)
 Invite the teachers to compare and complete their notes with their neighbour in the row (groups 2 elements), and then to discuss in group, 3-4 elements, to complete the notes (15')

 7. Synthesis
 Conclude with a quick summary to the large group (key points only)

 8. Gamified experience: creating a strong password

 20'

15'

STEP BY STEP

9. Recap

What to do		Details	
1.	Welcoming and module presentation Welcome all participants and present the key topics of the module.	5" •	



2. Topic about threats

Introduce the key topics about the most common malware. Other threats will be also presented, namely related with phishing and social engineering.

15'

 Keynote "Module 4" (slides 3 to 9)

3. Topic about cyber-hygiene

Explaining what cyber-hygiene is, and how this affects the users' safety in the cyber-space. It will be demonstrated some of the best practices to be a cyber hygienic user.

15'

 "B2B_TrainingCourse_ M4_Keynote_EN" (slides 10-19)

4. Topic about risks of using weak passwords

Define what is considered a weak password, followed by the risks of using these passwords, with practical examples.

15'

 "B2B_TrainingCourse_ M4_Keynote_EN" (slides 20-36)

5. Topic about recommendations to define passwords

After presenting the impact of weak password, show the importance of using different types of characters (uppercase, lowercase, numbers, and special characters). This demonstration aims to show that the complexity of the password can make an attack infeasible during the password's lifetime.

10'

 "B2B_TrainingCourse_ M4_Keynote_EN" (slides 37-47)

6. Topic about multi-factor authentication

Introduce the multi-factor authentication mechanisms, and how it works without too many technical details. Explain the use of this mechanism when the user is online or offline.

15'

 "B2B_TrainingCourse_ M4_Keynote_EN" (slides 48-54)

7. Topic about certified-based authentication

The final topic of the expositive part of the section. Explaining a different paradigm for authentication, commonly used by machines to authenticate without credentials. Explain the importance of this type of authentication and some of its limitations.

15'

 "B2B_TrainingCourse_ M4_Keynote_EN" (slides 55-62)

8. Group reconstruction

Organize the class in groups and ask teachers to write down the oral intervention individually, describing the main concepts from memory. After a quick break, the users should compare notes between them.

30'

 "B2B_TrainingCourse_ M4_Keynote_EN" (slides 63-66)



	Synthesis Summarize the key topics, encouraging the importance of strong passwords and multi-factor authentication.			
10. Gamified experience Ask participants to plate password available or	15 [']			
11. Recap After the participants synthesis.				
SESSION RESOURCE RESOURCES	Presentation			
REFERENCES	Online: Back2Basics cybersecurity https://www.kaspersky.co center/preemptive-safety, https://coretelligent.com/i for-practicing-good-cyber https://edu.gcfglobal.org/e	hm/resource- /cyber-hygiene-habits nsights/7-cybersecurity-tips- r-hygiene/		
	Books:	Non-technical People, by		
ASSESSMENT /EVALUATI	ON Online quiz (suggestion)			