Safeguarding against Phishing in the age of 4 Industrial Revolution (CyberPhish)



CyberPhish Extended Curriculum

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INTRODUCTION

The Cyberphish Extended Curriculum aims to deliver concise but far-reaching modules in cybersecurity with a particular emphasis on cyber phishing. The Curriculum is divided into three main sections namely:

- Train the Trainer Course equipping trainers with the right mindset and skills to deliver the curriculum.
- Face-to-face / Online Training setting up the modalities of how the curriculum training shall be delivered.
- The Curriculum (E-Learning Module) Structure describing in detail the structure of the curriculum

It is important to note that although the delivery of the curriculum is intended to have a blended learning approach, the way it is structured, allows flexibility in its delivery.

The Curriculum engages in introducing cybersecurity with a specific focus on cyberphishing. It is aimed at business and individuals at large and is designed to get both, geared up for Industry 4.0 and the potential security challenges the latter brings

Through the delivery of the Curriculum, learners shall acquire the skills to recognise and handle cyber-attacks, and how to protect devices and data against brute force attacks

1. TRAIN THE TRAINER COURSE

The following structure for the train the trainer course is designed in such a way to be either conducted face-to-face or online. The suggested duration may vary depending on the number of participants and the delivery requirements. Due to the nature of this Train the Trainer Course, it is being suggested to have groups of not more than twelve trainers per course.

The structure of the training programme is provided in the table below. The table offers **recommended topics** for the train the trainer meeting and recommended amount of time. It is at the descretion of the training organization and the trainer to use, extend, decrease or increase the duration and content of the train the trainer programme as deemed fit and according to the preparedness of both the trainer and the learners.

It is pertinent to note the Train the Trainer course is intended for Trainers who are already knowledgeable about the subject of cybersecurity in general.

Organisers of the event could send a questionnaire to trainers before the training session to collect the level of trainers and understand what the trainers expect from this training event. Following feedback from the questionnaire, organisers could adjust the training event agenda accordingly.

Structure	Train the Trainer Course delivered in a short 4 day program aimed at equipping trainers with the adequate skills and competencies			
Aim	Empower trainers with basic facilitation and training design skills to deliver effective training sessions in Cybersecurity			
Program	Program			
Day 1	A Day in the life of a student			
Item №	Item Suggested Time			
D1-01	Introduction and get-to-know session 0.5 hour			
	Ice Breaker or Team Building Activity to get to know each other			
	- Low Tech Social Network (ice breaker) - Marshmallow Challenge (team building)			





D1-02	Understanding and Dealing with Different Learning Styles	0.5 hour
	 A brief introduction to different learning style models 	
	 Introducing different learning styles (e.g. 7 learning styles, Kolb's learning cycle) as the basis for the subsequent sections. 	
D1-03	The Trainer as a student – Experiencing learning methodologies (Part 1)	3 hours
	The aim of this session is to engage the trainers in understanding and experiencing different pedagogical settings and teaching methods as students. A face-to-face or virtual (online classroom) shall be set with the trainers acting as students.	
	 Introduction to different pedagogical settings and teaching methods 	
	 In the first part of the session, the main trainer shall introduce a number of different pedagogical settings and delivery methods. (e.g. Workshops, Practical Sessions, Discussions, Debates, Case Studies etc.) 	
	Experiencing different teaching methods	
	 In the second part of the session, the trainers/learners shall be exposed to these different teaching methodologies. 	
D1-04	Networking Break	0.5 hour
D1-05	The Trainer as a student – Experiencing learning methodologies (Part 2)	1 hours
	 Discussion, feedback and sharing of best practices 	
	Charles of facilians attitudes feedback on the associance of Dart 1	
	- Sharing of feelings, attitudes, feedback on the experience of Part 1	
	- Sharing of best practices on how to improve the learning experience of the students	
D1-06	- Sharing of best practices on how to improve the learning experience of the students Day 1 – Summary and Conclusion	0.5 hours
D1-06 Day 2	- Sharing of best practices on how to improve the learning experience of the students	0.5 hours
	- Sharing of best practices on how to improve the learning experience of the students Day 1 – Summary and Conclusion	0.5 hours Suggested Time
Day 2	- Sharing of best practices on how to improve the learning experience of the students Day 1 – Summary and Conclusion Refreshing Essential Soft Skills	
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Day 2 Item № D2-01	 Sharing of best practices on how to improve the learning experience of the students Day 1 – Summary and Conclusion Refreshing Essential Soft Skills Item Introduction to day 2 – The importance of Soft Skills A brief introduction to the importance of soft skills in delivering a lesson Brief introduction focusing mainly on Presentation, Facilitation, Classroom Management and Giving constructive feedback 	Suggested Time 0.5 hour
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Classroom Management Sharing of best practices session on how to control, enthuse and involve learners both face-to-face and online Giving Effective and Constructive Feedback Short group debate (face-to-face or online workshop) analysing effective and constructive Feedback Short group debate (face-to-face or online workshop) analysing effective and constructive Feedback Them NP Item Suggested Time D3-01 Introduction to the Curriculum D3-01 Introduction to the Curriculum Structure and Teaching Modalities A brief face-to-face or online session introducing the Curriculum Structure including the importance of learning outcomes together with the teaching modalities. D3-02 Detailed Analysis of the Curriculum Topics (Part 1) Explanatory Session on the first two introductive modules of the curriculum D3-03 Networking Break D3-04 Detailed Analysis of the Curriculum Topics (Part 2) Explanatory Session on the final two modules of the curriculum D3-05 Day 3 – Summary and Conclusion D3-06 Day 3 – Summary and Conclusion D3-07 Introduction to the Workshop D4-08 Introduction to the Workshop D4-09 Introduction to the Workshop D4-00 Introduction to the Workshop shall depend on the number of participants. D4-00 Assessment shall be done in the form of feedback from fellow participating trainers. The duration of the workshop shall depend on the number of participants. D4-03 Networking Break D4-04 Assessment modalities might be used at the discretion of the Trainer D4-05 Networking Break D4-06 Assessment modalities might be used at the discretion of the Trainer D4-07 Day 4 - Summary and Conclusion of the Trainer the proposed curriculum explained on Day 3. Assessment shall be asked to facilitate a 10-minute session choosing any topic from the proposed curriculum. Peer assessment and feedback on the participant (maximum 3 hours) D4-05 Day 4 - Summary and Conclusion of the Train the Trainer Course D4-05 Day 4 - Summary and Conclusion of the Train the Trainer Course D5-50 Day 4 - Summary and Conclusion of the Train the Trainer			
Giving Effective and Constructive Feedback Short group debate (face-to-face or online workshop) analysing effective and constructive feedback techniques		Classroom Management	
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D4-05 Day 4 – Summary and Conclusion of the Train the Trainer Course 0.5 hours	D4-04	Trainers shall be asked to facilitate a 10-minute session choosing any topic from the proposed curriculum. Peer assessment and feedback on both facilitation skills and class management shall follow each session.	participant (maximum 3





2. FACE-TO-FACE / ONLINE TRAINING

A four-staged approach is adopted in integrating learners into the learning experience. At a glance:

ONLINE ORIENTATION SESSION	STUDENT WELCOME EVENT	MODULE DELIVERY	INTEGRATION WORKSHOP	MODULE DELIVERY	Course Completion	CONCLUDING NETWORKING SESSION
Information on Training Institution - Goals - Policies - Procedures -	Introduction – Trainer Bio Training Institution Management Information System (MIS) - Info on System - ID / Password - Resources - 'Use' Policy - FAQ / Troubleshooting Official Course Syllabus Assessment Methodologies Lines of Communication	Delivery of the module depending on the number of hours assigned per day. First Part (15 hours)	Online Feedback form concerning ongoing good practices and other practices which need addressing Discussion with Learners	Delivery of the module depending on the number of hours assigned per day. Second Part (15 hours)	Gathering of data - From trainer: assessments - From students: digital training evaluation form	Focus Session - Discussion on Findings - Conclusions - Way Forward
CONTINUOUS TUTOR SUPPORT						
CONTINUOUS SYSTEM SUPPORT						

i. Self-Guided Virtual Orientation Session

The first step in the orientation experience is to attend an **Online Orientation Session**. This session is a self-paced experience, allowing the learner the flexibility to learn about the institution providing the tuition (the training institution).

Prospective learners will have the opportunity to familiarise themselves with information related to (but not limited to) the training institution as a whole and the specific department concerned. Departmental goals, policies and procedures are highlighted, as well as the expectations of the training institution. To cater for visually and hearing impaired students, all orientation material and presentations shall be captioned and accessible for screen readers.

ii. Welcome Event

The new student cohort is welcomed at a **Student Welcome Event**. This event can be done either face-to-face or online. This meeting provides an excellent opportunity for students to meet the trainer and fellow students within the cohort, ask questions and become acquainted with the course logistics.

In particular, having been provided with the authorisation to use the training institution's information system, the trainer will deliver a concise introduction to the system as installed. Learners will be provided with user IDs and walked through setting passwords. Furthermore, guidance will be given regarding accessing the resources that learners are authorised to use. In this respect, a 'Use Policy' is read and signed. Recognising that this might come across as a lot of technical information, a 'FAQ and Troubleshooting' document will be made available for future reference.

The trainer can conclude the session by drawing a precise picture of the official course syllabus, the assessment methodologies, and the available lines of communication.

iii. Empowering the learners through ongoing support





In addition to developing learner mastery of knowledge, skills and attitudes relative to the Cybersecurity course of studies, the training institution recognises the importance of identifying and responding to the changing needs of the learners. As the first line of response, trainers will be available on a regular basis for positive interaction with students.

On a more official standing, an **Integration Workshop** will be organised after a predefined number of completed tuition sessions. Learner feedback will be gathered and discussed to determine how well the course progression matches the expectations of the students and the standards of the training institution.

Various training evaluation tools may be employed in advance of the integration workshop to aid in data collection. Indicators of success in this respect include, but are not limited to, the student acquisition of new skills and knowledge, a positive attitude towards the learning experience and efficiency impact.

In turn, this information is used to assure the improvement of the quality of the course program.

iv. Course Conclusions

Course completion is in itself a moment of recognition of significant accomplishment.

A **Concluding Networking Session** will be held of which the purpose is two-flow. Of upmost importance is that learners are given the opportunity to share a couple of hours of shared joy. However, the training institution will also concurrently take the opportunity to evaluate the success of the training program. *Kirkpatrick's Four-Level Training Evaluation Model*¹ will be employed in this respect.

Prior to the networking session, the training institution will gather information:

- from the trainer re: assessments.
 This will serve as a measure of how much the learners' knowledge and skills have changed since the inception of the program of studies.
- from the learners.
 A digital training evaluation form, enquiring feedback regarding the overall satisfaction with the learning experience, and the applicability (or otherwise) of their studies in the workplace.

With this data at hand, a **Focus Session** will be held during the networking event, wherein the training institution, through a structured panel discussion, can qualitatively measure results like productivity, quality and efficiency ratings.

3. THE CURRICULUM (E-LEARNING MODULE) STRUCTURE

3.1 Introduction

The Curriculum is aimed at both businesses and individuals who are experiencing the inevitable positive and negative effects brought by Industry 4.0 and who want to learn more and be more equipped in dealing with the security challenges brought about by this forth industrial revolution.

The Curriculum is structured in four distinct parts commencing with an introduction to the field of Cybersecurity and the related challenges brought by the advent of Industry 4.0. It delves into Cybersecurity and its legal aspects at European level together with how Cybersecurity is being fostered within the European Union.

Considering the importance and effects of social engineering and its relation to cyber-attacks, the curriculum expounds on the recognition of cyber-attacks and how to handle the latter to avoid disastrous and irreversible impacts.

¹ Kirkpatrick, D. L. (1994). Evaluating training programs: the four levels. San Francisco: Berrett-Koehler.





Apart from providing a concise description of the various modules, the curriculum structure includes learning outcomes per module and the suggested hours and learning modalities. It is pertinent to note that although the curriculum includes a number of hours per module, these hours are to be regarded as contact hours. The full curriculum totals 30 hours which are equivalent to 1 ECTS. It is being suggested that the same number of hours per module are to be considered for self-study and assessment.

Curriculum Module		Aim of Module
1.0 Introduction to Cybersecurity		This module aims to introduce the Cybersecurity course and its topics to both trainers and students in Higher Education Institutions. It starts with a brief history of Cybercrime development and reasons for its fast growth as well as historical stages and current status.
		It also outlines the cyber-attack challenges individuals and businesses are witnessing with the advent of Industry 4.0, including but not limited to the decreased global boundaries, widespread use of mobile technologies, cloud computing, Internet of Things (IoT) and Big data. Other challenges include third party risks, and growing threats including nation-state threats.
		The trainers will be able to find the necessary material to introduce the learners to the concept of Cybersecurity together with the normal challenges faced by businesses, with real case scenarios where possible.
		The module delves also into the numerous definitions and jargon used and found in the Cybersecurity field.
2.0	Overview of Cybersecurity within the EU	This module introduces the learner to the existing EU policies and initiatives aimed at promoting the concept of Cybersecurity. It also discusses legal aspects of Cybersecurity both within the EU as well as worldwide, exposing learners to numerous real life scenarios and case studies in the field.
		The module includes an overview of tendencies in the Cybersecurity landscape, including but not limited to statistics, trends, relevant threats, legal, reputational and financial risks and case study analysis.
3.0	Cyber-attacks – Social Engineering and Phishing	This module introduces the learner to Cyber-attacks with a particular focus on Phishing. It also delves into detail on the concept of Social Engineering and Reverse Social Engineering together with the strong link of social engineering to cyber-attacks.
		The module also presents different types of phishing attacks and techniques together with a number of real case study examples from the Project Partner countries.
Handling Cyber- adopting a proactive a		This module introduces the learner to the concept of e-safety and the importance of adopting a proactive approach to cyber threats through the concept of cyber hygiene. The module also provides a detailed approach on how to recognise and handle cyber-
		attacks. The module introduces the development and implementation of incident response plans in order to minimise the effects of cyber-attacks.





3.2 E-Learning Module Structure in Detail

3.2.1 An Introduction to Cybersecurity

Title of Module	1.0 Introduction to Cybersecurity	
Total Duration (Hours / Slides)	3 hours	
(Hours / Sildes)	46 – 60 Slides	
Delivery Methods	Face-to-face	
	Online	
	Blended Delivery	
Assessment	Face-to-face / Online Quiz	
Learning Outcomes	Have a general background to Cybersecurity in general	
	Understanding the challenges brought about by Cybersecurity	
	 Understand how cyber-attacks have changed over time, leading to increased measures and hence the counter measures against cyber-attacks 	
	 Understand why it is important to follow the Cybersecurity landscape and why it is necessary to continuously update Cybersecurity knowledge. 	
	Understand the different definitions related to Cybersecurity	
Prerequisites	No initial knowledge required	
Module Description	This module aims to introduce the Cybersecurity course and its topics to both trainers and students in Higher Education Institutions. It starts with a brief history of Cybercrime development and reasons for its fast growth as well as historical stages and current status.	
It also outlines the cyber-attack challenges individuals and business witnessing with the advent of Industry 4.0, including but not limited decreased global boundaries, widespread use of mobile technologies, computing, Internet of Things (IoT) and Big data. Other challenges include party risks, and growing threats including nation-state threats.		
	The trainers will be able to find the necessary material to introduce the learners to the concept of Cybersecurity together with the normal challenges faced by businesses, with real case scenarios where possible.	
	The module delves also into the numerous definitions and jargon used and found in the Cybersecurity field.	
MODULE SUB TOPICS		





1.1	Background –	Introduction to Cybersec	roduction to Cybersecurity			
	Challenges of the 4 th Industrial	Brief history of Cybercrin well as historical stages a	ne development and reaso and current status	ns for its fast growth as		
	• Problem Background outlining the challenges businesses are witner against cyber-attacks					
		Challenges for business:				
		 Cloud computing; Big data challenges; Risks from third-partie Internet of Things (IoT) 	Technologies: Wide usage of technologies (mobile technologies);Cloud computing;			
		The challenge of growing	threats;			
		Nation-State threats				
		Suggested Hours	Suggested Hours Minimum Slides Maximum Slides			
		1.5	23	30		
1.2	History of Cybersecurity	leading to increased me cyber-attacks.	 Brief history of how approaches to cyber-attacks have changed over time, leading to increased measures and hence the counter measures against cyber-attacks. This section might include local / European / International Case Studies 			
		Suggested Hours Minimum Slides Maximum Slides				
		1.0	15	20		
1.3	Definitions of Cybersecurity	Section about Cybersecu	Section about Cybersecurity jargon/terms & stats/sources			
	,	Suggested Hours	Minimum Slides	Maximum Slides		
		0.5	8	10		

3.2.2 Cybersecurity within the European Union (EU)

Title of Module	2.0 Cybersecurity within the EU
Total Duration (Hours / Slides)	3 hours 48 – 67 slides
Delivery Method	Face-to-face
	Online
	Blended Learning
	Discussions
Assessment	Face-to-face / Online Quiz





Learning Outcomes Prerequisites Module Description	Understanding EU laws re	elated to Cybersecurity Cybersecurity Local Laws we might be useful to better the existing EU policic Cybersecurity. It also discussed to as well as worldwided case studies in the field. EW of tendencies in the Cybersecurity, relevant three cybersecurity.	ith EU Laws understand the module es and initiatives aimed cusses legal aspects of p, exposing learners to phersecurity landscape,
MODULE SUB TOPICS			
2.1 Fostering Cybersecurity within the European Union	Brief introduction on EU concept of Cybersecurity Suggested Hours 1.0	Policies and Initiatives ai Minimum Slides 20	med at promoting the Maximum Slides 30
2.2 Legal Aspects of Cybersecurity	particular including repu	ecurity worldwide (in gen cussions of non complianc ison and contrast of Cybers Minimum Slides 5	e
2.3 Overview on the tendencies of Cybersecurity landscape	 tendencies, relevant three A look into recent cyber- upskilling in view of the p Note: Discussion could be 	Life scenarios and case studats, risks (legal, reputation attacks and class discussion attacks and class discussion acceptate risks brought about a conline of face-to-face with to what is expected from the Minimum Slides 23	, financial) n on the importance of t by cyber -attacks. n the trainer facilitating

3.2.3 Cyber-attacks: Social Engineering and Phishing

Title of Module	3.0 Cyber-Attacks: Social Engineering and Phishing
Total Duration (Hours / Slides)	10 hours 150 – 200 slides
Delivery Method	Face-to-face





	Online		
	Blended Learning		
	Usage of interactive tools (e.g. online scenarios tools)		
	Discussions		
Assessment	Face-to-face / Online Quiz		
Learning Outcomes	Understand the concept	of cyber-attacks	
	Define Social Engineering	g and reverse social engine	ering
	 Understand the modalit cyber-attacks 	ies of Social Engineering ar	nd its relationship with
	Understand the most co	mmon cybersecurity threat	S
	Understand the main cyl	ber-attack categories and te	echniques
Prerequisites	Basic IT and Business Knowledg	e might be useful to better	understand the module
Module Description	This module introduces the le Phishing. It also delves into o Reverse Social Engineering tog cyber-attacks. The module also presents dif together with a number of re countries.	detail on the concept of Sether with the strong link of sether types of phishing a	Social Engineering and of social engineering to attacks and techniques
MODULE SUB TOPICS			
3.1 Introduction to	Brief introduction to Cyb	per-attacks in particular Phis	shing attacks
Cyber-attacks	Suggested Hours 0.5	Minimum Slides 8	Maximum Slides 10
Social Engineering Modules and Manipulation		icular emphasis on:	
	Suggested Hours	Minimum Slides	Maximum Slides

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² Cialdini, R. B. (2016). Pre-Suasion: A Revolutionary Way to Influence and Persuade. New York: Simon & Schuster. ISBN 978-1501109799.





		4	60	80		
3.3	Different Types of Phishing Attacks and	 A section to define different types of Cyber-attacks (especially Phishing) and how to recognise them (following chapter), including but not limited to: 				
	Techniques					
		- GDPR related attacks				
		- Emails;				
		- Instant Messaging;				
		- Social networks;				
		- Websites;				
		- Lotteries scams;				
		- SMS;				
		- Phone calls;				
		- Face to face;				
		 Shoulder surfing; 				
		Combination of techniques				
		- Spray and Pray				
		- Spear Phishing				
		- Whaling				
		- Vishing				
		- Smishing				
		- Angler Phishing				
		- Clone Phishing				
		- Malvertising				
		Suggested Hours	Minimum Slides	Maximum Slides		
		4	60	80		
Oresentation of a number of different case studie organisations		dies from the Partner				
		 Online or face-to-face discussion in Small Groups (5-6 students) Note: Discussion shall take the form of an exercise with each group finding and analysing a recent phishing attack to include details such as date of attack, information about victim, modalities of the attack, consequences, lessons learned and so on. Subsequently, a student from each group presents the results of the analysis to the whole class. Constructive feedback from trainer and peers shall also be provided. 				
		Suggested Hours	Minimum Slides	Maximum Slides		
		1.5 22 30				

3.2.4 Overview of Understanding and Handling Cyber-attacks

Title of Module	4.0 Understanding and Handling Cyber-attacks
Total Duration	14 hours
(Hours / Slides)	210 – 255 slides





Delivery Method	Face-to-face			
	Online			
	Blended Learning			
Assessment	Face-to-face / Online Quiz			
Learning Outcomes	Acquire basic knowledge on e-safety and security			
	Understand different information content			
	 Understand identity and distinguish between different attacks related to identity 			
	 Understanding the con- and/or organisations 	onderstanding the consequences of eyest attacks to bear marriagans		
	Define and understand action to cyber-attacks	Define and anderstand the importance of office in 18.000 as a productive		
	 Understand and apply different methods of protection against cyber- attacks 			
	Design and implement and incident response plan to cyber-attacks			
Prerequisites	Previous modules			
Module Description	This module introduces the learner to the concept of e-safety and the importance of adopting a proactive approach to cyber threats through the concept of cyber hygiene.			
The module also provides a detailed approach on how to recognise and cyber-attacks.		recognise and handle		
	The module introduces the development and implementation of incide response plans in order to minimise the effects of cyber-attacks.			
MODULE SUB TOPICS				
4.1 Basic Knowledge on e-security				
	 Know about reasons and consequences of identity and personal data thef in the workplace and on the internet (fraudulent information usage, three of information loss, sabotage). 		-	
	Know about threats associated with personal data disclosure.		lisclosure.	
	 A brief introduction to the effects of cyber-attacks to both the individual and the organisation. Further detail to be explored in section 4.4. 			
	Suggested Hours	Minimum Slides	Maximum Slides	
	0.5	8	10	





4.3 Recognising Phishing Attacks • Case studies analysis by using techniques from section 3.3 – Different Types of Phishing Attacks and Techniques • A section to recognise Cyber-attacks (with reference to the items in the previous chapter) including but not limited to: • Critical Thinking • Learn to hover links • Understand URL • Analysing messages • Recognising red flags Suggested Hours 5 75 90 4.4 Handling Cyber-attacks • Guide on Cybersecurity, including a section on the damage caused by cyber-attacks to both the individual and organisations and how to deal with Cyber-attacks based on the previous chapter. This should include but not limited to: • Safe Navigation • Creating Strong Passwords • Avoiding Attacks • Safe Online Shopping • Anti-Cyber-attacks Software installation • Dealing with Cookies • Taking appropriate Backups • Encrypting Files • Two factors authentication • Malware • Safe browsing • This section shall also include local / European / International Case Studies as examples referred to in previous modules • This section shall include easy Step -by-Step Instructions and images as appropriate • This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a cyber-attack. Suggested Hours Minimum Slides Maximum Slides 5 75 90	4.2	Proactive actions	 Cyber hygiene on the Internet (minimise information about persons, including personal accounts on social media, which could be used by attackers) Cyber hygiene on the workplace Technological tools and measures (filters and block phishing emails) 			
Case studies analysis by using techniques from section 3.3 – Different Types of Phishing Attacks A section to recognise Cyber-attacks (with reference to the items in the previous chapter) including but not limited to: Critical Thinking Learn to hover links Understand URL Analysing messages Recognising red flags Suggested Hours Handling Cyberattacks Suggested Hours Suggested Hours Handling Cyberattacks Suggested Hours Handling Cyberattacks Suggested Hours Handling Cyberattacks Suggested Hours Handling Cyberattacks Handling Cyberattacks Suggested Hours Handling Cyberattacks Maximum Slides Handling Cyberattacks Suggested Hours Handling Cyberattacks Maximum Slides Handling Cyberattacks Maximum Slides Handling Cyberattacks Suggested Hours Minimum Slides Maximum Slides						
previous chapter) including but not limited to: Critical Thinking Learn to hover links Understand URL Analysing messages Recognising red flags Suggested Hours Minimum Slides 5 75 90 4.4 Handling Cyberattacks Guide on Cybersecurity, including a section on the damage caused by cyberattacks to both the individual and organisations and how to deal with Cyber-attacks based on the previous chapter. This should include but not limited to: Safe Navigation Creating Strong Passwords Avoiding Attacks Safe Online Shopping Anti-Cyber-attacks Software installation Dealing with Cookies Taking appropriate Backups Encrypting Files Two factors authentication Malware Safe browsing This section shall also include local / European / International Case Studies as examples referred to in previous modules This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a cyber-attack. Suggested Hours Minimum Slides Maximum Slides	4.3		Case studies analysis by the studies analysis by the studies analysis by the studies are studies.	Case studies analysis by using techniques from section 3.3 – Different Types		
### Suggested Hours Suggested Hours			previous chapter) includ - Critical Thinking - Learn to hover link - Understand URL	previous chapter) including but not limited to: - Critical Thinking - Learn to hover links - Understand URL		
4.4 Handling Cyberattacks • Guide on Cybersecurity, including a section on the damage caused by cyberattacks • Guide on Cybersecurity, including a section on the damage caused by cyberattacks to both the individual and organisations and how to deal with Cyber-attacks based on the previous chapter. This should include but not limited to: • Safe Navigation • Creating Strong Passwords • Avoiding Attacks • Safe Online Shopping • Anti-Cyber-attacks Software installation • Dealing with Cookies • Taking appropriate Backups • Encrypting Files • Two factors authentication • Malware • Safe browsing • This section shall also include local / European / International Case Studies as examples referred to in previous modules • This section shall include easy Step -by-Step Instructions and images as appropriate • This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a cyber-attack. Suggested Hours Minimum Slides Maximum Slides				- Recognising red flags		
Guide on Cybersecurity, including a section on the damage caused by cyberattacks to both the individual and organisations and how to deal with Cyber-attacks based on the previous chapter. This should include but not limited to: Safe Navigation Creating Strong Passwords Avoiding Attacks Safe Online Shopping Anti-Cyber-attacks Software installation Dealing with Cookies Taking appropriate Backups Encrypting Files Two factors authentication Malware Safe browsing This section shall also include local / European / International Case Studies as examples referred to in previous modules This section shall include easy Step -by-Step Instructions and images as appropriate This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a cyber-attack. Suggested Hours Minimum Slides Maximum Slides						
 Avoiding Attacks Safe Online Shopping Anti-Cyber-attacks Software installation Dealing with Cookies Taking appropriate Backups Encrypting Files Two factors authentication Malware Safe browsing This section shall also include local / European / International Case Studies as examples referred to in previous modules This section shall include easy Step -by-Step Instructions and images as appropriate This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a cyber-attack. Suggested Hours Minimum Slides Maximum Slides 	4.4		 Guide on Cybersecurity, including a section on the damage caused by cyberattacks to both the individual and organisations and how to deal with Cyber-attacks based on the previous chapter. This should include but not limited to: Safe Navigation 			
 as examples referred to in previous modules This section shall include easy Step -by-Step Instructions and images as appropriate This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a cyber-attack. Suggested Hours Minimum Slides Maximum Slides 			 Avoiding Attacks Safe Online Shoppi Anti-Cyber-attacks Dealing with Cooki Taking appropriate Encrypting Files Two factors auther Malware 	 Avoiding Attacks Safe Online Shopping Anti-Cyber-attacks Software installation Dealing with Cookies Taking appropriate Backups Encrypting Files Two factors authentication Malware Safe browsing This section shall also include local / European / International Case Studies as examples referred to in previous modules This section shall include easy Step -by-Step Instructions and images as appropriate This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a 		
This section shall also include the reactive action of a cyber-attack including recovery procedures where an organisation and/or a user fall victims of a cyber-attack. Suggested Hours Minimum Slides Maximum Slides			as examples referred to			
			appropriateThis section shall also increcovery procedures wh			





4.5	Minimising Damage through Incident Response	indicating the suggested occurrence of a data bre	Design, development and implementation of incident response plans indicating the suggested and best practise techniques to be actioned in the occurrence of a data breach incident. Note: Part of section could be adapted according to countries specific		
		Suggested Hours	Minimum Slides	Maximum Slides	
		1.5	22	30	