Security in Organizations (SIO)

Assignment 5 COVID19 - 2021-2022

Goal:

- Understanding the importance of physical security as part of information security.

Instructions:

- This assignment must be completed by a team of two students.
- The assignment must be written with the Times New Roman font, in size 12pt, with normal spacing. The subtitles are in bold, and the margins must be all of size 2.5cm.
- The original numbering of the questions must be indicated for each answer.
- State your answers in a succinct and clear manner.

Deadline:

- Submit the assignment in a PDF document through Brightspace before **2022/01/06 23:59.**

If and only if you do not have a Brightspace access, you can submit your assignment by email to Anna Guinet (see SIO website) in a PDF document.

Assessing the difference between working from home and from the office

As a consequence of the COVID-19 pandemic, many employees work now from home. Perform the following steps from the perspective of the Corporate Security Officer of Philips (https://www.philips.com/). *Note: Philips does not only manufacture home appliances!*

A. Difference between work from home and from the office for the work activities.
   a. What are the activities that Philips employees now need to perform from home and are different from the ones when they were working at the office?
   b. How does that impact those employees?

B. Difference between work from home and work from the office for the applications.
   a. What are the applications that Philips employees now need to use when working from home, and are different from the ones when they were working at the office?
   b. How does that impact those employees?

Security risks related to working from home for two groups of employees

Let ‘Group1’ be the group of Philips employees who is working at corporate Human Resources.

C. Identify a second group of Philips employees now working from home due to the COVID-19 pandemic. Define this group based on the business processes that the employees perform. Try to be as concrete as possible, and identify the group in

anticipation with the further parts of the assignment. We henceforth refer to this group as ‘Group2’.

Answer the following questions (D to H) for Group1 and Group2.

D. Identify three physical vulnerabilities in the home environment of the employees that are the most relevant for Philips. Motivate your choice. There may be overlap in the answers you give for the two groups. *Highlight clearly the three identified vulnerabilities for each group.*

E. Identify two other types of security vulnerabilities in the home environment of the employees that are the most relevant for Philips. Motivate your choice. There may be overlap for the two groups. For some inspiration, you can look at ISO 27002. *Highlight clearly the two identified vulnerabilities for each group.*

F. Along the lines of the lecture on risk assessment and treatment, mention five potential incidents related to the identified vulnerabilities in Questions D and E. A potential incident consists of a threat (what or who), one or more vulnerabilities identified and a scenario in which the threat ‘uses’ the vulnerability. *Link clearly the incidents with the vulnerabilities for each group.*

G. Along the lines of the lecture on risk assessment and treatment,

a. rate the risk of the five potential incidents identified in Question F (the risk is based on ‘impact times frequency of occurrence’),
b. briefly motivate the impact and frequency of occurrence in one sentence for each, and
c. relate the impact to the importance of the business process/group the incident relates to.

Do not forget to mention how you derive the risk from the impact score and the frequency of occurrence, and their scales.

H. For each of the five identified potential incidents, present the most relevant compensating security control. Motivate your choice and explain to what extent the risk is compensated.

<u>The assignment should be four pages at most.</u>

CALCULATION OF THE GRADE	
Question	Max. points
A. Activities	1
B. Application	1
C. Group2	1
D. Physical vulnerabilities	3
E. Other vulnerabilities	2
F. Incidents	5
G. Risk assessment	5
H. Compensating measures	5
SUM	**23**
Grade = (1 + 9*(sum_of_points / 23)) rounded to the nearest 0,5 point.	