

# IAS Risk Management Assignment - August 2020

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This coursework allows you to extend your knowledge and understanding of the use of “information asset risk worksheet” introduced in OCTAVE-A framework presented during the lectures. This is a pair-work assignment (2 members). This coursework counts for 30% of the overall marks for the module.

## **BACKGROUND**

The scenario is as follows, you are being asked to compose 5 critical “information asset risk worksheets” for a chosen organization. The organization can be an existing company which you are/were working for, or you may create a made-up scenario. You also have the option of choosing SLIIT as your organization. However you will not get access to internal technical information and therefore the components have to be made-up by yourself. Note the scale of the organization is irrelevant, although your choice of organization will affect the number of potential threats.

## **TASK DESCRIPTION**

### **1. Identify potential 5 risk scenarios for the organization.**

- Through a thorough assessment of the organization you choose, you are to identify key critical assets, which can be hardware or software based.
- You should then identify potential threats to these assets.
- Out of these threat scenarios you can choose top 5

### **2. Complete ‘Allegro Worksheet 10’ for each scenario in ‘1’.**

- You should complete one worksheet per scenario you identify
- You should predict ‘probability’ level for each scenario based on a solid justification. Justification for each probability level should be included in the Appendix.
- You should assign respective ‘impact’ values for each scenario based on a solid justification. Justification for each probability level should be included in the Appendix.
- You should also propose risk mitigation techniques for each scenario (No need of extensive technical details).
- Include at least 1 mitigation step for each scenario.
- Include references in IEEE Format wherever necessary. ([Click here](#) to learn IEEE referencing format)

### **3. VIVA Presentation**

- During an upcoming Lab Session, You will bring a printed copy of your work
- 2 members will present the work to lab instructors
- Instructors will ask questions if necessary to clarify your worksheets

## **Important:**

- Clearly indicate two names and IT numbers on a coversheet.
- Allegro Worksheet ‘10’ can be found in Appendix A, further details can be obtained through CourseWeb.
- Impact Areas may depend on the organization you choose and you can introduce new areas of impact if necessary.
- Sample completed worksheets are provided in Courseweb.

## **ASSESSMENT CRITERIA**

The following will be considered in the assessment of this coursework:

- The accuracy of identified risk scenarios.
- Justifications for perceived 'impact' and 'probability' ratings.
- The quality of the proposed mitigation techniques. (Quality being defined as 'fit for purpose')
- Scope and technical accuracy of the overall worksheets.
- The correct use of relevant references to support the arguments you make.
- The overall presentation – clarity of discussion, organization and professional appearance.

## **SUBMISSION INFORMATION**

- The quality of the proposed mitigation techniques. (Quality being defined as 'fit for purpose')
- Completed worksheets and Appendix to be uploaded via Course-Web, using the provided link.
- Online submission link will be available on Courseweb.
- The deadline for submission of the completed coursework will be announced during one of the lectures.
- Late submissions are **NOT** allowed and **Plagiarism** will not be tolerated.
- You should bring a **printed copy** of your assignment to your viva session.

## **MARKING SCHEME**

The marking scheme of this assignment is based on several components with corresponding weights, given as follows:

- Critical Analysis & the use of Risk Management Concepts - 30%
- Scope and Technical Accuracy - 20%
- Use of Literature and Theory - 10%
- Referencing & Presentation (Viva & Written) - 40%

**APPENDIX – A**  
Allegro Worksheet 10

Allegro - Worksheet 10		INFORMATION ASSET RISK WORKSHEET				
Information Asset Risk	Threat	Information Asset				
		Area of Concern				
		(1) Actor <i>Who would exploit the area of concern or threat?</i>				
		(2) Means <i>How would the actor do it? What would they do?</i>				
		(3) Motive <i>What is the actor's reason for doing it?</i>				
		(4) Outcome <i>What would be the resulting effect on the information asset?</i>	<input type="checkbox"/> <b>Disclosure</b> <input type="checkbox"/> <b>Destruction</b> <input type="checkbox"/> <b>Modification</b> <input type="checkbox"/> <b>Interruption</b>			
		(5) Security Requirements <i>How would the information asset's security requirements be breached?</i>				
		(6) Probability <i>What is the likelihood that this threat scenario could occur?</i>	<input type="checkbox"/> <b>High</b>	<input type="checkbox"/> <b>Medium</b>	<input type="checkbox"/> <b>Low</b>	
	(7) Consequences <i>What are the consequences to the organization or the information asset owner as a result of the outcome and breach of security requirements?</i>		(8) Severity <i>How severe are these consequences to the organization or asset owner by impact area?</i>			
			Impact Area	Value	Score	
			Reputation & Customer Confidence			
			Financial			
			Productivity			
			Safety & Health			
			Fines & Legal Penalties			
		User Defined Impact Area				
Relative Risk Score						

