

Cyber Threats, Analysis and Response – Coursework Specification

Using what you have learned in the module and elsewhere together with the references in the coursework references document (CRD) that is distributed with this coursework specification **produce a 3000 word report**, as follows.

Choose two of the environments discussed in the CRD links. You might choose the oil refinery from the Triton incident, a multi-tenant building from the perspective of a tenant or a building owner, a city water system, airport terminal, one of the facilities visited by Freakyclown, or something else featured in the references.

Then **choose two different types of attacker**. You might choose one of the varieties of nation state actor, an organised crime group, or other attackers mentioned in the links.

The report should then cover the following, in **three main sections** of roughly equal size:

1. **Two significant similarities** and **two significant differences** between
 - a. the **cyber-physical systems** of the two environments and
 - b. the **opportunities** in each environment for the two chosen attackers(this is four similarities and four differences in total)
2. Propose and justify **four key recommendations** for one of the environments to help **prevent and disrupt** one of the attackers and to protect the environment's assets
3. For the other environment, propose and justify **four key recommendations** to **analyse and respond appropriately** to cyber-related events and information

Use your 3000 words to demonstrate that you have achieved the module learning objectives, which are captured in the three mark criteria.

Mark Criteria (equal weighting):

1. Describe the structure and operation of typical computer systems and networks and identify threats and opportunities to intelligence gathering and exploitation within cyber–physical environments
2. Design strategies for preventing and disrupting illicit online activities and apply appropriate cyber security defensive controls
3. Analyse and respond appropriately to cyber-related events and information

Please see the associated coursework marksheet, distributed with this coursework specification, for the relevant mark descriptors for the various grade bands. Remember that the coursework should not contain anything sensitive.

Deadline: Friday 26 March 2021.

Deliverables: 3000 word report in pdf file format.