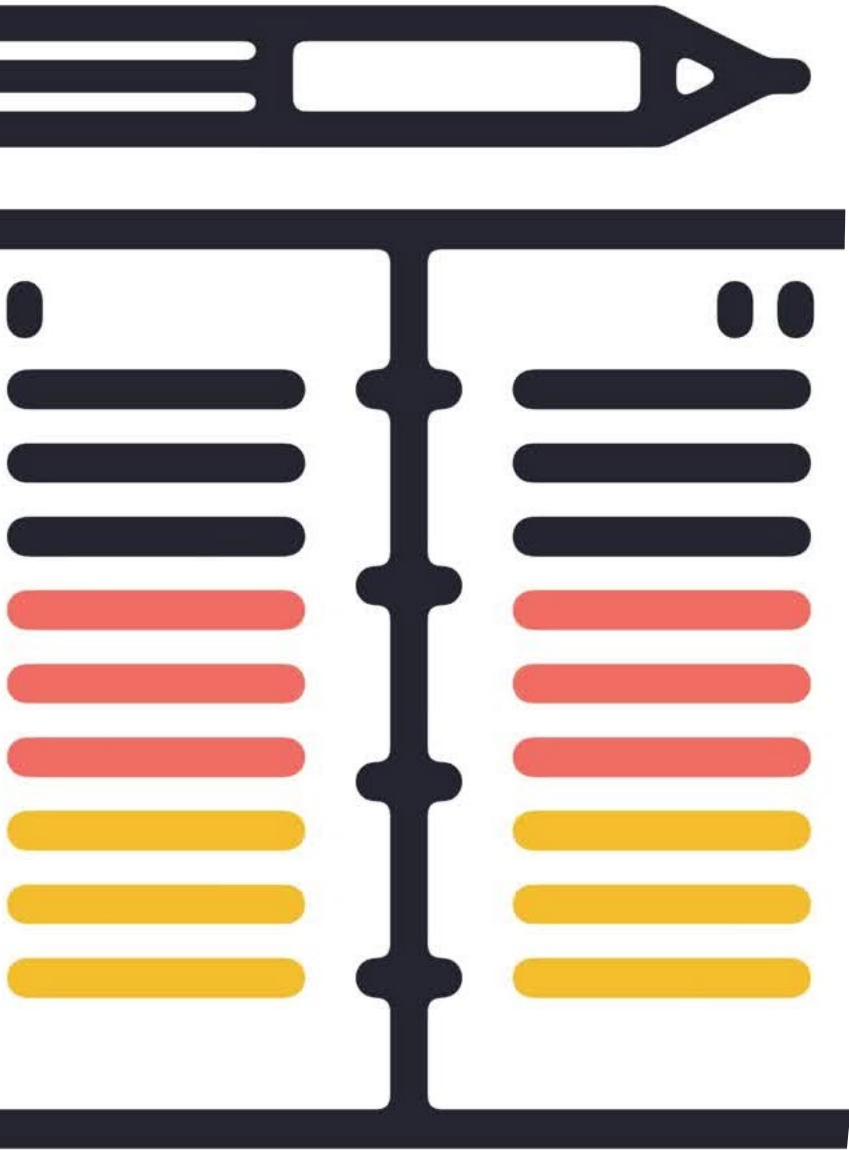




Graded Unit Schedule

Lecturers: David Nicol and Mark Gillan



One Drive

- Create a One Drive folder named: Your Name-Graded Unit Study
- Share > One Drive folder with David Nicol and Mark Gillan



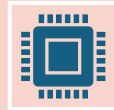
Tasks



A series of Research Tasks



Covering several topics to assist with your Graded Unit



Scenario: You are providing Cyber research and recommendations



To a local Insurance Services Organisation



Each week there is a group of tasks with a deadline for submission

Weeks 1 & 2: Task 1 Data Security

Data Security Breach Definition, Examples and Consequences to clients, individuals, and the organisation

Password Advice/Policy, purpose and pitfalls, hints/tips to users

Purpose and Benefits of Using a Firewall

Encryption

DEADLINE DATE/TIME: End of Week 2

Week 2:

Task 2

OSI Model, Protocols and Vulnerabilities

Examples of vulnerabilities from three of the seven layers.

Steps that can be taken to address the vulnerabilities relating to the three protocols.

A sentence which helps you memorise the seven layers of the OSI Layer.

Generate a diagram for the OSI Model which lists protocols and vulnerabilities.

DEADLINE DATE/TIME:
Prior to Week 3 lesson

Week 3:

Task 3

Digital Forensics

Training outline document regarding the Digital Forensics Process (Important Steps for the following three stages: Incident response, managing digital evidence, Preparing forensic documentation).

Some digital forensics hardware and software tools used for the three stages.

UK Forensic Science Regulator's Codes of Practice and Conduct (Forensic Science Regulator, 2011).

What is ISO 17025 in relation to forensics labs and why is it important to this field.

DEADLINE DATE/TIME: Prior to Week 4 lesson

Week 4:

Task 4

Penetration Testing

Provide information to management about the five stages of the penetration testing planning process.

Includes presenting information about what actions would be carried out at each stage by the tester and what would hopefully be achieved.

DEADLINE DATE/TIME: Prior to Week 5 lesson

Week 5: Task 5 Investigation Report

Implications of a Data Security Breach

Penetration Testing

Recommendations that can be made to increase the cyber security within a local Insurance Services organisation.

DEADLINE DATE/TIME: Prior to Week 6 lesson

Heading into the Examination

- Week 6:
 - Discussion
 - Preparation for Exam
 - Exercise Checklist review
- Week 7: Examination

In Summary

Week Number of Last Block	Task
1 and 2	Data Security
2	OSI Model, Protocols and Vulnerabilities
3	Digital Forensics
4	Penetration Testing
5	The Full Report – Investigation Report with Recommendations
6	All Tasks Fully Completed
7	Preparation for the Examination – last minute review
8	Examination