Level 3 Cambridge Technical in IT Unit 3 Cyber Security Revision Timetable

Student Name:

We will be asking you to revise all topics from Unit 3 Cyber Security. You MUST make revision notes. Remember revision must mean you make your own notes so choose your preferred technique well. Do not just read your notes, this will only help you a remember for a short time and you will not remember everything. It is always best to do something with your notes, rewriting them or testing yourself will help much more.

Exam

Monday PM 17th January 2022 – 1 hour

Pre-Release

You have all received a Paper copy of the Pre-Release document from OCR, you must make sure you have read the document and done the research it asks for. You will not take this into the exam, but it will be the basis of Part 1 of the exam paper. Part 2 is about other aspects of the Unit.

Resources

Revision Guide and Textbook. You can access an online version of the Textbook through Dynamic Learning. This includes access on any Smart Phone.

Showbie has all the work you have done in class for this unit with lots of links and information. This includes a link to Dynamic Learning.

What to revise	Revised & Tested?	Any Problems?
Week 1 wb 29/11/21 **LO1 Understand what is meant by cyber security** • Cyber security aims to protect information, i.e.: o confidentiality, integrity, availability • Types of cyber security incidents • The importance of cyber security **Pre-Release Research** • Understand the current Hardware & Network Setup		
Week 2 wb 06/12/21 **LO2 Understand the issues surrounding cyber security** • Threats to cyber security, i.e. o Vulnerabilities, system attacks, physical threats, environmental o Accidental, intentional, organised crime, state sponsored • Types of attackers, i.e.: o Hacktivist, cyber-criminal, insider, script kiddie, vulnerability broker, scammers, phishers, cyber-terrorists o characteristics including age, location, social group • Motivation for attackers, i.e.: • Espionage, righting perceived wrongs, publicity, fraud, score settling, public good, thrill, income generation **Pre-Release Research**		
Week 3 wb 13/12/21 **LO2 Understand the issues surrounding cyber security** • Targets for cyber security threats, i.e.:		

o People, organisations, equipment, information, methods that can be used during an attack • Impacts of cyber security incidents. • Other considerations of cyber security, i.e.: o Ethical, legal, operational, implications for stakeholders **Pre-Release Research**		
Christmas Holidays **LO3 Understand measures used to protect against cyber security incidents** • Cyber security risk management, i.e.: o identify assets and analyse risks o mitigate risks by: ▪ testing for potential vulnerabilities ▪ monitoring and controlling systems ▪ protect vulnerabilities ▪ cost/benefit • Testing and monitoring measures, i.e.: o Testing, Functionality, sandboxing. o IDS, NIDS, HIDS, DIDS, IPS o Emerging technology o Effectiveness • Cyber security controls (access controls) o Physical, hardware, software, data, encryption and cryptography o Devices and procedures o Characteristics **Pre-Release Research**		
Week 6 wb 04/01/22 **LO4 Understand how to manage cyber security incidents.** • Responding to an incident, i.e.: o know responsibilities, know who to contact, know procedures, know the extent of the incident, contain the incident, eradicate the incident, reduce the impact of the incident, recover from the incident, confirm the system is functioning normally • Cyber security incident report, i.e.: o incident title and date of incident, target of the incident, incident category, description of the incident, type of attacker(s), purpose of incident, techniques used by the attacker(s), capability of attacker(s) **Pre-Release Report**		
Week 7 wb 12/01/22 **Pre-Release Report** • Make sure you have revised what you have written in your Report for the Pre-Release.		