



Oxford Cambridge and RSA

Thursday 25 May 2023 – Afternoon

Level 3 Cambridge Technical in IT

05839/05840/05841/05842/05877 Unit 3: Cyber security

INSERT



INSTRUCTIONS

- Do **not** send this Insert for marking. Keep it in the centre or recycle it.

INFORMATION

- This Insert contains the pre-release material that you have already seen.
- This document has **4** pages.

Cyber Security Testing

Pen Perimeter

Pen Perimeter, a cyber security company, provides a variety of cyber security services including:

- Penetration Tests
- Simulated cyber security attacks
- Simulating phishing attacks

Tests on:

- Web Applications
- Mobile Applications
- The Wireless Network

The clients of Pen Perimeter include charities, businesses, healthcare providers and government (state) departments.

Pen Perimeter will provide their clients with a Test Report. The Test Report also includes recommendations on how the clients' cyber security can be improved.

Test Report

Part of the Test Report provided by Pen Perimeter includes a summary of the tests conducted with an overview of the current state of cyber security. An example of this overview is given below:

Element Tested	Results Overview
Internal Network	FAIL – several critical issues
Wireless Network	LOW – few low-level vulnerabilities found
Web App	HIGH – vulnerabilities found which constitute a risk
Mobile App	HIGH – vulnerabilities found which constitute a risk
Social Engineering Tests	FAIL – many users gave out their login credentials and viruses were installed on the network
Penetration Tests	HIGH – vulnerabilities found which constitute a risk

Other Services

Pen Perimeter also provides training seminars on different aspects of cyber security including how to complete a cyber security incident report.

Further research

To prepare for the exam, you should research the following themes:

- The types of clients that Pen Perimeter have, why they might be targets and why they need to protect their data;
- Different types of security controls that would be included in the tests;
- How the report from Pen Perimeter could be used by its clients, including the impact and implications of the recommendations on stakeholders;
- The training that Pen Perimeter would provide to its clients on how to respond to an incident;
- The contents of a cyber security incident report, how to fill it in and how to make use of it for future cyber security incidents.



Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, OCR (Oxford Cambridge and RSA Examinations), The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of Cambridge University Press & Assessment, which is itself a department of the University of Cambridge.

© OCR 2023

C387/2306