

Wednesday 21 May 2025 – Afternoon

Level 3 Cambridge Technical in IT

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

PRE-RELEASE



INSTRUCTIONS

- Do **not** take this copy of the pre-release material into the exam.
- Do **not** take any notes into the exam.

INFORMATION

- A clean copy of this pre-release will be given to you with the question paper.
- This document has **4** pages.

PH Software

PH Software specialises in developing and selling cloud-based payroll applications.

Organisation

PH Software is divided into four main areas:

- application development
- existing customer and application support
- network management
- sales.

Application development are responsible for designing and writing the code for the next version of the payroll application.

Existing customer and application support engage with the customers and log any issues with the application. They do this using Customer Relationship Management (CRM) and Helpdesk software.

Network management are responsible for making sure that the servers and infrastructure within PH Software are working. The website and cloud based system are managed by a third party.

Sales are responsible for finding new customers for the application. When there is a new version of the application, they will also contact existing customers to offer them an upgrade.

In total there are ten staff and hybrid working (three days remote and two days onsite) is common.

Suspicion of an attack

PH Software has become suspicious that it has been attacked in a cyber security incident. Several customers have told them they were given quotes from one of their competitors, that was just slightly lower than PH Software was quoting for their renewal. PH Software is also suspicious that the software provided by the competitor looks very similar to their new application.

Recently the network manager left abruptly, and a customer support assistant has just resigned.

Further research

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

- the types of attacker who would want to target PH Software including their characteristics and motivations
- methods that the attacker could use to obtain information from PH Software
- the impact of an attack on PH Software
- different methods PH Software could use to prevent the attack and the effectiveness of those methods
- why PH Software needs to protect its information
- how PH Software can use the attack in future planning.

OCR
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 OCR Copyright Team, 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.

C383/2506