

OCR Cambridge National Information Technologies

R012 Understanding tools, techniques, methods and processes for technological solutions

About the Exam:

- 80 marks
- Exam Length: 1 hour and 45 minutes

Revision Topics/Sections

LO1	Understand the tools and techniques that can be used to initiate and plan solutions	Revised/ Tested
1.1	The phases of the project life cycle and tasks carried out at each phase	
1.2	Interaction and Iteration between the phases of the project life cycle	
1.3	The inputs and outputs of each phase of the project life cycle	
1.4	Initial project considerations (SMART goals)	
1.5	Planning tools and the software types used to develop project plans	
LO3	Understand how data and information can be collected, stored and used	
3.1	Data (What is data?)	
3.2	Information (What is information?)	
3.3	The methods used to collect data and store data/information and the IT used to support data collection	
3.4	Different storage methods and the appropriateness of the use of these	
3.5	The use of data, the applications and interaction of data stores, and the benefits and drawbacks of the use of data	
LO4	Understand the factors to be considered when collecting and processing data and storing data/information	
4.1	Types of threats	
4.2	The vulnerabilities that can be exploited in a cyber-security attack	
4.3	The impacts and consequences of a cyber-security attack	
4.4	Prevention measures	
4.5	Current relevant IT legislation, its implications and applications	

4.6	The importance of validity, reliability and bias when collecting and using data and information	
LO6	Understand the different methods of processing data and presenting information	
6.1	Selection and justification of appropriate software tools and techniques to process data	
6.2	Selection and justification of the appropriate tools and techniques to present information	
6.3	The resources required for presenting information	

Useful Revision Websites and Books

Here is a list of useful websites which will help support you when revising for RO12 (the exam).

Online past papers and mark schemes

Use the OCR website to access past papers and practice exam questions:

<http://www.ocr.org.uk/qualifications/cambridge-nationals/cambridge-nationals-information-technologies-level-1-2-j808/>

Quizlet

Use the link or create your own flashcards for each Learning Outcome:

<https://quizlet.com/511965278/ocr-cambridge-nationals-it-r012-exam-revision-flash-cards/>

Useful Videos

Some youtube videos related to each learning outcome:

LO1 -

https://www.youtube.com/playlist?list=PL04uZ7242_M7DAgqz5VPmP_ex4mnTpBgg

LO3 -

https://www.youtube.com/playlist?list=PL04uZ7242_M7217Aqk5JpyY432aeM28aB

LO4 -

https://www.youtube.com/playlist?list=PL04uZ7242_M6LfmeGFqWnYR9JYRQijR8s

LO6 -

https://www.youtube.com/playlist?list=PL04uZ7242_M7z184qQYffKbl6q98DSCSO

Revision booklet (Purchase)

My Revision Notes: Cambridge National Level 1/2 Certificate in Information Technologies Paperback