

Cambridge TECHNICALS LEVEL 3

IT

Unit 1 – Fundamentals of IT
RESOURCE LINKS

Version 1

Cambridge
TECHNICALS
2016

CONTENTS

Introduction	3
Links	
Learning Outcome 1 (LO1) Understand computer hardware	4
Learning Outcome 2 (LO2) Understand computer software	5
Learning Outcome 3 (LO3) Understand business IT systems	5
Learning Outcome 4 (LO4) Understand employability and communication skills used within an IT environment	6
Learning Outcome 5 (LO5) Understand ethical and operational issues and threats to computer systems	7

INTRODUCTION

Resource Links is an e-resource, provided by OCR, for teachers of Cambridge Technicals. It provides descriptions of, and links to, a variety of teaching and learning resources that you may find helpful.

Where appropriate, we have mapped the resources to this OCR unit/learning outcomes (LOs) and provided information about their cost and format.

If you know of other resources you would like to see included here, or discover broken links, please let us know. We would also like to hear from you if have any feedback about your use of these, or other, OCR resources. Please contact us at resources.feedback@ocr.org.uk

To find out more about this qualification please go to: <http://www.ocr.org.uk/qualifications/cambridge-technicals-it-level-3-certificate-extended-certificate-introductory-diploma-foundation-diploma-diploma-05838-05842-2016-suite>



Cambridge
TECHNICALS
2016

2016 Suite

- New suite for first teaching September 2016
- Externally assessed content
- Eligible for Key Stage 5 performance points from 2018
- Designed to meet the DfE technical guidance

TYPES OF RESOURCE

OCR Produced Resources

These are resources devised and produced directly by the Resources Development Team at OCR.

Publisher Partner Resources

For many subjects OCR works with a publisher partner to ensure that good quality resources such as textbooks are available for first teaching.

Whilst the publisher partner has access to our subject experts and we quality check and endorse these resources they are produced by, and remain the property of, the publisher partner. There is no financial link between OCR and its publisher partners and we do not pay for the development of, or receive any royalties from, these resources.

Endorsed Resources

These resources were produced entirely independently of OCR, but we have quality checked them for their suitability as a resource to support our qualifications.

Other Resources

Unless specifically stated these resources are completely independently produced and are not endorsed by OCR. We have looked at them though, and we think they could be useful in supporting our specifications.

We leave it to you, as a professional educator, to decide if any of these resources are right for you and your students, and how best to use them.

LINKS

Computers

A website providing comprehensive coverage of computer components.

Supports: LO1

Cost: Free

Format: Web page

<http://www.explainthatstuff.com/howcomputerswork.html>

White, R. and Downs, T.E. (2014) *How Computers Work*

A definitive illustrated guide to the world of PCs and technology.

Supports: LO1

Cost: £19.98

Format: Book

http://www.amazon.co.uk/gp/product/078974984X?keywords=how%20computers%20work&qid=1439197681&ref_=sr_1_1&sr=8-1#reader_078974984X

Communication device

Comprehensive coverage of communication devices.

Supports: LO1

Cost: Free

Format: Web page

<http://www.computerhope.com/jargon/c/communication-devices.htm>

Network Hardware

Descriptions and explanations of network hardware.

Supports: LO1

Cost: Free

Format: Web page

http://www.teach-ict.com/gcse_new/networks/hardware/miniweb/index.htm

Build a network

Interactive instructions on how to build a network.

Supports: LO1

Cost: Free

Format: Web page

http://www.teach-ict.com/gcse_new/networks/hardware/resources/NWB_SIM.swf

Conversion Calculator

A byte to file size calculator.

Supports: LO1

Cost: Free

Format: Web page

<http://www.t1shopper.com/tools/calculate/>

Number Systems: An Introduction to Binary, Hexadecimal, and More

An article explaining number systems, with interactive learning aids.

Supports: LO1

Cost: Free

Format: Web page

<http://code.tutsplus.com/articles/number-systems-an-introduction-to-binary-hexadecimal-and-more--active-10848>

IT Computer Data Storage Unit Conversion

A tool to convert converts data storage into computer data units.

Supports: LO1

Cost: Free

Format: Web page

<http://www.unit-conversion.info/computer.html>

Software

Definitions of types of software.

Supports: LO2

Cost: Free

Format: Web page

<http://www.computerhope.com/jargon/s/software.htm>

Understanding Applications

Descriptions of types of desktop applications.

Supports: LO2

Cost: Free

Format: Web page

<http://www.gcflearnfree.org/computerbasics/3>

55 Types of Electronic Communication in the Workplace

A comprehensive list of modern communication methods.

Supports: LO2

Cost: Free

Format: Web page

<http://www.workplace-communication.com/types-electronic-communication.html>

Basic Troubleshooting Techniques

A comprehensive coverage of troubleshooting techniques.

Supports: LO2

Cost: Free

Format: Web page

<http://www.gcflearnfree.org/computerbasics/15/print>

TCP/IP Networking Protocols

Definitions of network protocols.

Supports: LO2

Cost: Free

Format: Web page

<http://www.comptechdoc.org/independent/networking/protocol/protnet.html>

Understanding your business's IT needs

An introduction to setting IT systems in business.

Supports: LO3

Cost: Free

Format: Video

<https://www.gov.uk/understanding-business-it-needs>

Different Types of Servers

Comprehensive coverage of different types of servers.

Supports: LO3

Cost: Free

Format: Web page

<http://www.buzzle.com/articles/different-types-of-servers.html>

Virtualisation

Comprehensive coverage of virtualisation technology.

Supports: LO3

Cost: Free

Format: Web page

<http://searchvirtualdatacentre.techtarget.co.uk/definition/Virtualisation>

Cloud and virtualisation

A collection of up to date articles on cloud computing and virtualisation.

Supports: LO3

Cost: Free

Format: Web page

<http://www.information-age.com/technology/cloud-and-virtualisation>

Data Communication and Computer Network

Online tutorial explaining networking characteristics and connectivity methods.

Supports: LO3

Cost: Free

Format: Web page

http://www.tutorialspoint.com/data_communication_computer_network/index.htm

Networking Basics – Key Concepts in Computer Networking

Several articles and other resources dealing with networking characteristics and connectivity methods.

Supports: LO3

Cost: Free

Format: Web page

http://compnetworking.about.com/od/basicnetworkingconcepts/u/computer_networking_basics.htm

Information Systems and Strategy

Comprehensive coverage of business information systems.

Supports: LO3

Cost: Free

Format: Web page

http://www.chris-kimble.com/Courses/World_Med_MBA/Types-of-Information-System.html

Interpersonal Skills Self-Assessment

A quiz that assesses the user's interpersonal communication skills.

Supports: LO4

Cost: Free

Format: Web page

<http://www.skillsyouneed.com/ls/index.php/343479/>

What Sort of Leader Are You?

A quiz that assesses the user's leadership attributes.

Supports: LO4

Cost: Free

Format: Web page

<http://www.skillsyouneed.com/ls/index.php/325444>

Information Technology and Human Communication in the Workplace

Article discussing IT and communication in a work environment.

Supports: LO4

Cost: Free

Format: Web page

<http://www.people-communicating.com/technology-and-human-communication.html>

What jobs are available in the computer industry?

Detailed descriptions of a range of IT job roles.

Supports: LO4

Cost: Free

Format: Web page

<http://www.computerhope.com/issues/ch000764.htm>

BCS

Website of an IT professional body: BCS, The Chartered Institute for IT.

Supports: LO4

Cost: Free

Format: Web page

<http://www.bcs.org/category/1>

UK IT Association

Website of an IT professional body: the UK IT Association.

Supports: LO4

Cost: Free

Format: Web page

<http://www.ukita.co.uk/>

Workplace policies and procedures

Examples of workplace policies.

Supports: LO5

Cost: Free

Format: Web page

http://www.industrialrelations.nsw.gov.au/oirwww/Employment_info/Managing_employees/Workplace_policies_and_procedures.page#Types_of_workplace_policies

10 ethical issues confronting IT managers

Article investigating the ethics of data and employee management.

Supports: LO5

Cost: Free

Format: Web page

<http://www.techrepublic.com/article/10-ethical-issues-confronting-it-managers/>

Lewin's Change Management Model

Video and article discussing the theory of change management.

Supports: LO5

Cost: Free

Format: Web page

http://www.mindtools.com/pages/article/newPPM_94.htm

28 Types of Computer Security Threats and Risks

Article discussing several computer threats.

Supports: LO5

Cost: Free

Format: Web page

<http://www.itscolumn.com/2012/03/28-types-of-computer-security-threats-and-risks/>

Get Safe Online Free expert advice

A website providing advice on physical and digital security.

Supports: LO5

Cost: Free

Format: Web page

<https://www.getsafeonline.org/>

Legal Obligations

Advice on the disposal of data and computer equipment.

Supports: LO5

Cost: Free

Format: Web page

http://www.it-trading.co.uk/content/legal_obligations.htm

Are you legal?

A website providing advice on the disposal of data and computer equipment.

Supports: LO5

Cost: Free

Format: Web page

<https://www.sitd.co.uk/are-you-legal>



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Vocational qualifications

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