

Cambridge TECHNICALS LEVEL 3

Cambridge
TECHNICALS
2016

IT

MAPPING GUIDE

Version 1



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INTRODUCTION

This document lists the current Cambridge Technicals Units and Learning Outcomes (LO) and maps them to the new Cambridge Technicals Units and Learning Outcomes so that you can see where each learning outcome has remained, changed, moved or been removed.

We've also identified where the 2010 BTEC units map to the Cambridge Technicals 2016 units. See page 39.

IT

The Cambridge Technicals in IT have been developed to meet the changing needs of the sector, and prepare your learners for the challenges they'll face in Higher Education or employment. Designed in collaboration with experts spanning the breadth of the sector, the Cambridge Technicals in IT focuses on the skills, knowledge and understanding that today's universities and employers demand. Your learners will practically apply their skills and knowledge in preparation for further study or the workplace.

When developing the Certificate qualifications we worked with universities to design the content and assessment of these qualifications – ensuring that your learners are prepared and have the skills to progress to degree level.

For the Tech Levels we worked with universities, industry experts and employers to design the content and assessment of these qualifications – ensuring that your learners are prepared and have the skills to progress to degree level, an apprenticeship, or work.

The three Diplomas have four vocational pathways within them that can be followed (at least one pathway must be achieved). Each pathway focuses on industry sectors and job roles that your learners will actually be able to do having completed a Cambridge Technical. We've worked in partnership with industry to make sure your learners can progress directly into the sector in job roles that are appropriate for their age and experience.

TEACHING AND LEARNING RESOURCES

New resources are being developed to support your teaching of this new qualification. These will include Delivery Guides, Resource Links, Lesson Elements, Project Approaches, a Qualifications Calculator and a Progress Tracker.

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/>



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

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
1	Communication and employability skills for IT	LO1	Understand the personal attributes valued by employers	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO4	Understand employability and communication skills used within an IT environment	
		LO2	Understand the principles of effective communication						
		LO3	Be able to use IT to communicate effectively						
		LO4	Be able to address personal development needs	This LO is not in any of the new Technicals					

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
2	Information systems	LO1	Understand how organisations use business information	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	2	Global information (Externally assessed)	LO3	Understand the use of global information and the benefits to individuals and organisations	
		LO2	Understand the issues related to use of information		1	Fundamentals of IT (Externally assessed)	LO5	Understand ethical and operational issues and threats to computer systems	
		LO3	Know the features and functions of information systems		2	Global information (Externally assessed)	LO4	Understand the legal and regulatory framework governing the storage and use of global information	
		LO4	Be able to use IT tools to produce management information		13	Social media and digital marketing	LO2	Understand the use of social media in business	
				2	Global information (Externally assessed)	LO5	Understand the process flow of information		
						LO6	Understand the principles of information security		
		LO4	Be able to use IT tools to produce management information	This LO is not in any of the new Technicals					This is basically creating a product and therefore could be linked to the product development or data design and analysis units

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
3	Computer systems	LO1	Understand the components of computer systems	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
							LO2	Understand computer software	
		LO2	Be able to recommend computer systems for a business purpose		18	Computer systems - hardware (Internally assessed)	LO1	Understand the components of a computer system	
							4	Computer networks (Internally assessed)	
					18	Computer systems - hardware (Internally assessed)			
							19	Computer systems - software (Internally assessed)	
					18	Computer systems - hardware (Internally assessed)			
							19	Computer systems - software (Internally assessed)	
LO3	Be able to conduct system maintenance using utility software								

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units						
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments		
4	Managing networks	LO1	Know about networking management tools and technologies	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware			
							LO2	Understand computer software			
					4	Computer networks (Internally assessed)	LO1	Understand the concept of networks			
		LO2	Understand network management functions		1	Fundamentals of IT (Externally assessed)	LO3	Understand business IT systems			
							4	Computer networks (Internally assessed)		LO4	Be able to plan maintenance activities for computer networks
LO3	Be able to carry out network management activities										

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
5	Organisational systems security	LO1	Understand the impact of potential threats to IT systems	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO5	Understand ethical and operational issues and threats to computer systems	
					3	Cyber security (Externally assessed)	LO1	Understand what is meant by cyber security	
		LO2	Understand the issues surrounding cyber security						
		LO2	Know how organisations can keep systems and data secure		1	Fundamentals of IT (Externally assessed)	LO5	Understand ethical and operational issues and threats to computer systems	
					3	Cyber security (Externally assessed)	LO3	Understand measures used to protect against cyber security issues	
		LO3	Understand the organisational issues affecting the security of IT systems		1	Fundamentals of IT (Externally assessed)	LO5	Understand ethical and operational issues and threats to computer systems	
3	Cyber security (Externally assessed)			LO2	Understand the issues surrounding Cyber Security				

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units					
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments	
6	e-Commerce	LO1	Know the technologies required for an e-commerce system	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware		
							LO2	Understand computer software		
		LO3	Understand business IT systems							
		LO4	Understand employability and communication skills used in an IT environment							
		LO2	Understand the impact of e-commerce on organisations				LO3	Understand business IT systems		
		LO3	Understand the effects of e-commerce on society	This LO is not in any of the new Technicals				LO4	Understand employability and communication skills used in an IT environment	
		LO4	Be able to plan e-commerce strategies							

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
7	Computer networks	LO1	Know types of network systems and protocols	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
							LO2	Understand computer software	
							LO4	Understand business IT systems	
							LO1	Understand computer hardware	
							LO2	Understand computer software	
		LO3	Know the services provided by network systems	4	Computer networks (Internally assessed)	LO1	Understand the concept of networks		
		LO4	Be able to make networked systems secure			LO2	Be able to plan computer networks to meet client requirements		

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
8	IT technical support	LO1	Understand the tools and techniques used for technical support	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
		LO2	Understand how organisational policies and procedures influence technical support				LO2	Understand computer software	
		LO3	Be able to gather information to provide advice and guidance		20	IT technical support (Internally assessed)	LO1	Understand the role of technical support	
		LO4	Be able to communicate advice and guidance				LO2	Be able to diagnose faults and solutions for computer systems	
							LO3	Be able to provide advice and guidance to specific customers	

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
9	Project planning with IT	LO1	Understand how projects are managed	This LO is exactly the same as the new Technicals BUT DOES NOT have the same title	8	Project management (Internally assessed)	LO1	Understand the project life cycle	
		LO2	Be able to plan projects using IT				LO2	Be able to initiate and plan projects	
		LO3	Be able to follow project plans				LO3	Be able to execute projects	
		LO4	Be able to review the project management process				LO4	Be able to carry out project evaluations	

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
10	Developing computer games	LO1	Understand the impact of the gaming revolution on society	This LO is not in any of the new Technicals	15	Games design and prototyping (Internally assessed)	LO2	Be able to develop games concepts	
		LO2	Know the different types of computer game	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs				Be able to develop games prototypes	
		LO3	Be able to design and develop computer games				LO3		
		LO4	Be able to test and document computer games						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
11	Maintaining computer systems	LO1	Understand the organisational issues related to computer system maintenance	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	18	Computer systems - hardware (Internally assessed)	LO3	Be able to build and upgrade computers	
					19	Computer systems - software (Internally assessed)	LO1	Understand different software installations and their purpose	
					1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
		LO2	Know how to plan computer system maintenance		19	Computer systems - hardware (Internally assessed)	LO3	Be able to build and upgrade computers	
					19	Computer systems - software (Internally assessed)	LO2	Be able to implement software installations and upgrades	
							LO3	Be able to conduct system maintenance using utility software	
		LO3	Be able to perform routine housekeeping on computer systems		1	Fundamentals of IT (Externally assessed)	LO5	Understand ethical and operational issues and threats to computer systems	
					19	Computer systems - software (Internally assessed)	LO3	Be able to conduct system maintenance using utility software	
LO4	Be able to monitor and improve systems performance	18	Computer systems - hardware (Internally assessed)	LO4	Be able to test and evaluate the functionality of computer systems				

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
12	Website production	LO1	Understand web architecture and components	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO3	Understand business IT systems	
		LO2	Understand the factors that influence website performance		21	Web design and prototyping (Internally assessed)	LO1	Understand the fundamentals of webs design	
					1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
							LO2	Understand computer software	
							LO5	Understand ethical and operational issues and threats to computer systems	
		LO3	Understand business IT systems						
		LO3	Be able to design websites		21	Web design and prototyping (Internally assessed)	LO1	Understand the fundamentals of webs design	
LO2	Be able to plan the development of an interactive website for an identified client								
LO4	Be able to create websites	LO3	Be able to create prototype websites for identified client						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
13	Installing and upgrading software	LO1	Understand why software needs installing or upgrading	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO2	Understand computer software	
		LO2	Know how to prepare for a software installation or upgrade				LO1	Understand different software installations and their purpose	
		LO3	Be able to install or upgrade software		19	Computer systems - software (Internally assessed)	LO2	Be able to implement software installations and upgrades	
		LO4	Understand the completion and handover process						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
14	Computer animation	LO1	Understand the types and uses of animation	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development unit
		LO2	Know the software techniques used in animation						
		LO3	Be able to design and implement digital animations						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
15	Computer game platforms and technologies	LO1	Understand game platform types	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO2	Understand computer software	
		LO2	Understand hardware technologies for game platforms				LO1	Understand computer hardware	
		LO3	Understand software technologies for game platforms				LO2	Understand computer software	
		LO4	Be able to connect and configure platforms and devices to enable gameplay						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
15	Computer game platforms and technologies	LO1	Understand game platform types	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO2	Understand computer software	
		LO2	Understand hardware technologies for game platforms				LO1	Understand computer hardware	
		LO3	Understand software technologies for game platforms				LO2	Understand computer software	
		LO4	Be able to connect and configure platforms and devices to enable gameplay						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
16	2D animation production	LO1	Understand the techniques and development of 2D animation	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development unit
		LO2	Be able to devise a 2D animation with soundtrack						
		LO3	Be able to produce a 2D animation with soundtrack						
		LO4	Be able to evaluate audience responses to own 2D animation work						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
17	Interactive media authoring	LO1	Understand principles of interactive media authoring	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development unit
		LO2	Be able to devise an interactive media product						
		LO3	Be able to create an interactive media product following industry practice						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
18	Web animation for interactive media	LO1	Understand uses and principles of web animation	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development and web design and prototyping units
		LO2	Be able to devise web animation						
		LO3	Be able to create web animation following industry practice						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
19	Spreadsheet modelling	LO1	Understand how spreadsheets can be used to solve complex problems	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	22	Big Data analytics	LO1	Be able to process Big Data for business purposes	These are products and could therefore be reflected in the product development, business computing and data analysis and design units
							LO2	Be able to provide information resulting from processing Big Data	
		LO2	Be able to develop complex spreadsheet models	This LO is not in any of the new technicals					
		LO3	Be able to automate and customise spreadsheet models						
		LO4	Be able to test and document spreadsheet models						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
20	Impact of the use of IT on business systems	LO1	Understand the impact of developments in information technology on organisations	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	17	Internet of Everything (Internally assessed)	LO1	Understand what is meant by the loE	
		LO2	Understand how organisations respond to information technology developments					Be able to repurpose technologies to extend the scope of loE	
		LO3	Be able to propose improvements to business systems using IT						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
21	Communication technologies	LO1	Understand the communication principles of computer networks	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
		LO2	Know the main elements of data communications systems				LO2	Understand computer software	
							LO1	Understand computer hardware	
LO3	Be able to implement different forms of network communications	4	Computer networks (Internally assessed)	LO1	Understand the concept of networks				
				LO2	Be able to plan computer networks to meet client requirements				

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units						
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments		
22	IT systems troubleshooting and repair	LO1	Understand how organisational policies can affect IT troubleshooting and repair	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO5	Understand Ethical and Operational Issues of IT systems			
		LO2	Be able to use appropriate tools to troubleshoot IT problems				20	IT technical support (Internally assessed)		LO2	Be able to diagnose a range of faults and solutions for clients' computer systems

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
23	Database design	LO1	Understand the features of relational databases	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development, business computing and data analysis and design units
		LO2	Be able to design, create and populate a relational database						
		LO3	Be able to test a relational database						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
24	Client side customisation of web pages	LO1	Understand the fundamentals of Cascading Style Sheets (CSS)	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development and web design and prototyping units
		LO2	Understand the fundamentals of scripting languages						
		LO3	Be able to control the layout of web						
		LO4	Be able to create interactive web pages						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
25	Data analysis and design	LO1	Know modelling methodologies	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	10	Data analysis and design (Internally assessed)	LO1	Understand the purpose and stages of data analysis and design	
					24	Enterprise Computing	LO3	Be able to develop enterprise computing solutions to meet business requirements	
					7	Business computing (Internally assessed)	LO2	Be able to capture and store data for analysis	
		LO2	Understand logical data modelling		10	Data analysis and design (Internally assessed)	LO1	Understand the purpose and stages of data analysis and design	
		LO3	Be able to produce logical data models		7	Business computing (Internally assessed)	LO3	Be able to use tools to edit and analyse data	
		LO4	Be able to implement and test logical data models	10	Data analysis and design (Internally assessed)	LO3	Be able to develop a data solution to meet design to meet business requirements		

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
26	Web server scripting	LO1	Understand the principles of web server scripting	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development and web design and prototyping units
		LO2	Be able to use web server scripting						
		LO3	Understand the issues affecting web server scripting						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
27	Digital graphics	LO1	Know the hardware and software required to work with graphic images	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development unit
		LO2	Understand types of graphic images and graphical file formats						
		LO3	Be able to use editing tools to edit and manipulate images						
		LO4	Be able to create and modify graphic images to meet user requirements						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
28	Networked systems security	LO1	Know the types and sources of network attacks	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO5	Understand ethical and operational Issues and threats to computer systems	
					2	Global information(Externally assessed)	LO6	Understand the principles of information security	
					3	Cyber security (Internally assessed)	LO2	Understand the issues surrounding cyber security	
					4	Computer networks (Internally assessed)	LO2	Be able to plan computer networks to meet client requirements	
		LO2	Know about security related hardware and software		1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
							LO2	Understand computer software	
							LO5	Understand ethical and operational Issues and threats to computer systems	
					4	Computer networks (Internally assessed)	LO2	Be able to plan computer networks to meet client requirements	

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
28	Networked systems security	LO3	Understand organisational aspects of network security	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	3	Cyber security (Externally assessed)	LO2	Understand the issues surrounding cyber security	
							LO3	Understand measures used to protect against Cyber Security issues	
		LO4	Be able to apply system security	4	Computer networks (Internally assessed)		LO4	Understand how to manage a cyber security incidents	
						LO2	Be able to plan computer networks to meet client requirements		

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
29	The business environment	LO1	Know the range of different businesses and their ownership	This LO is not in any of the new technicals					
		LO2	Understand how businesses are organised to achieve their purposes						
		LO3	Know the impact of the economic environment on businesses						
		LO4	Know how political, legal and social factors impact on business						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
30	Business resources	LO1	Know how human resources are managed	This LO is not in any of the new technicals					
		LO2	Know the purpose of managing physical and technological resources						
		LO3	Know how to access sources of finance						
		LO4	Be able to interpret financial statements						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
31	Digital graphics for interactive media	LO1	Understand theory and applications of digital graphics technology	This LO is not in any of the new technicals					These are products and could therefore be reflected in the product development unit
		LO2	Be able to generate ideas for digital graphics for an interactive media product						
		LO3	Be able to create digital graphics for an interactive media product following industry practice						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
32	Computer game design	LO1	Understand the principles of game design	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	15	Games design and prototyping (Internally assessed)	LO1	Understand the principles of games design and prototyping	
		LO2	Be able to generate ideas for a game concept				LO2	Be able to develop game concepts	
		LO3	Be able to prepare game design documentation				LO4	Be able to present and evaluate game concepts	
		LO4	Be able to present a game concept to stakeholders				24	Enterprise Computing	

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
33	System design	LO1	Understand how system design tools are used in a business system development	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	11	Systems analysis and design (Internally assessed)	LO1	Understand the role of systems analysis and design in relation to the system development lifecycle	
		LO2	Be able to use system design tools in a business system		7	Business computing (Internally assessed)	LO2	Be able to capture and store data for analysis	
		LO3	Be able to design system inputs and outputs		11	Systems analysis and design (Internally assessed)	LO2	Be able to use investigative techniques to establish requirements for business systems	
		LO4	Be able to produce a documented prototype for a specified system				LO3	Be able to develop and document models for business systems	
							LO4	Be able to create logical and physical designs for specified business systems	

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
34	Systems analysis	LO1	Understand the requirements for system development	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	11	Systems analysis and design (Internally assessed)	LO1	Understand the role of systems analysis and design in relation to the system development lifecycle	
		LO2	Understand the importance of documenting system requirements				LO3	Be able to develop and document models for business systems	
		LO3	Be able to carry out a systems analysis		7	Business computing (Internally assessed)	LO3	Be able to use tools to edit and analyse data	
		LO4	Be able to plan for a system development		11	Systems analysis and design (Internally assessed)	LO2	Be able to use investigative techniques to establish requirements for business systems	
							LO1	Understand the role of systems analysis and design in relation to the system development lifecycle	

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
35	System development requirements and constraints	LO1	Know hardware methodologies and systems software used to support system development	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
							LO2	Understand computer software	
					18	Computer systems - hardware (Internally assessed)	LO1	Understand the components of a computer system	
		19	Computer systems - software (Internally assessed)		LO1	Understand different software installations and their purpose			
		LO2	Understand systems software and hardware constraints associated with system development		1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
							LO2	Understand computer software	
					18	Computer systems - hardware (Internally assessed)	LO2	Be able to propose a computer system for identified business requirements	
		19	Computer systems - software (Internally assessed)		LO2	Be able to implement software installations and upgrades to meet specified user requirements			
		LO3	Understand solutions to systems software and hardware constraints associated with system development		1	Fundamentals of IT (Externally assessed)	LO5	Understand ethical and operational issues and threats to computer systems	
		LO4	Be able to use diagnostic tools to resolve systems software and hardware problems		20	IT technical support (Internally assessed)	LO2	Be able to diagnose a range of faults and solutions for clients' computer systems	

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
36	Exploring computer applications	LO1	Understand key features of computer applications	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO2	Understand computer software	
		LO2	Understand different uses for computer applications						
		LO3	Be able to develop a computer application		6	Application design (Internally assessed)	LO3	Be able to generate designs for application solutions	
		LO4	Be able to document solutions for a computer application				LO4	Be able to present solutions to meet client and user requirements	

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
37	Developing programming solutions	LO1	Understand the software development process	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	14	Software engineering (Internally assessed)	LO1	Understand universal programming constructs	
		LO2	Be able to develop a programming solution				LO2	Be able to investigate business requirements for programming solutions	
		LO3	Understand validation and verification processes				LO3	Be able to develop software solutions to meet business requirements	
		LO4	Be able to produce a functional programming solution				LO4	Be able to propose software solutions to meet business requirements	
		LO5	Be able to document a programming solution						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
38	Key computing concepts for IT solutions	LO1	Know key concepts of computing and programming used to design IT solutions	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	14	Software engineering for business (Internally assessed)	LO1	Understand universal programming constructs	
		LO2	Be able to apply mathematical concepts to computing		1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
		LO3	Understand developmental techniques for IT solutions		14	Software engineering for business (Internally assessed)	LO1	Understand universal programming constructs	
		LO4	Understand the developmental cycle for IT solutions						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
39	Understanding the business analytics process for Big Data	LO1	Understand the concept of Big Data	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	22	Big Data analytics (Internally assessed)	LO1	Understand the scope of big data	
		LO2	Understand how Big Data is analysed by the business sector						
		LO3	Understand the impact of business analytics						

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
40	Cloud computing in business	LO1	Understand cloud computing concepts and models	This LO is not in any of the new technicals	CC (25)	Cloud technology	LO1	Understand the characteristics and context of cloud technology and why it is used	Cloud computing is referred to in Unit 1 Fundamentals of IT but not in as much depth
		LO2	Understand cloud computing infrastructure for organisations				LO3	Understand the requirements of cloud services	
		LO3	Understand how networks are managed				LO4	Understand the features of cloud storage	
		LO4	Understand the requirements for security in the Cloud				LO5	Understand the deployment requirements for cloud-based services for organisations	
		LO5	Understand the impact and changes cloud computing has on IT service management				LO7	Know about impact, risks and security issues related to cloud technology	

MAPPING

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
41	Understanding mobile technology	LO1	Understand channels and devices used with mobile technology	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	1	Fundamentals of IT (Externally assessed)	LO1	Understand computer hardware	
							LO2	Understand computer software	
							LO3	Understand business IT systems	
		LO2	Understand improvements to business activities created by mobile technologies	12	Mobile technology (Internally assessed)	LO1	Understand mobile technology		
		LO3	Know how mobile technology can be used in business models						

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
42	Developing a smarter planet	LO1	Understand what is meant by a smarter planet	This LO is not in any of the new technicals	16	Developing a Smarter Planet	LO2	Be able to propose ways to extend the scope of the Smarter Planet	
		LO2	Understand the changing smarter business environment				LO3	Be able to present, refine and evaluate Smarter Planet concepts	
		LO3	Understand how smarter planet technologies could be further developed	Knowledge requirements from the 2012 unit will support learners with their understanding	23	Cognitive computing	LO1	Know how cognitive computing is used in business	
							LO2	Be able to investigate opportunities for the positive application of cognitive computing	

Cambridge Technicals in IT 2012 units					Cambridge Technicals in IT 2016 units				
Unit no.	Unit title	LO no.	LO title	THE CHANGE	Unit no.	Unit title	LO no.	LO title	Other comments
43	Understanding social media for business	LO1	Understand the concept of social media	This LO is no longer stand-alone and has been divided and is now in multiple units/LOs	13	Social media and digital marketing (Internally assessed)	LO1	Understand digital marketing	
		LO2	Know social media for the business environment						
		LO3	Know benefits of social media for business to an organisation						

2016 Cambridge Technicals Unit 24 Cloud computing mapping to 2012 Cambridge Technicals units

Due to the nature of 2016 Unit 24 Enterprise computing, there are multiple links in the following 2012 units:		2016 Unit 24 Enterprise computing does NOT map to any of the following 2012 units:	
Unit 2	Unit 28	Unit 1	Unit 24
Unit 3	Unit 29	Unit 6	Unit 26
Unit 4	Unit 33	Unit 10	Unit 27
Unit 5	Unit 34	Unit 12	Unit 30
Unit 7	Unit 35	Unit 14	Unit 31
Unit 8	Unit 36	Unit 15	Unit 32
Unit 9	Unit 37	Unit 16	Unit 41
Unit 11	Unit 38	Unit 17	Unit 43
Unit 13	Unit 39	Unit 18	
Unit 20	Unit 40	Unit 19	
Unit 21	Unit 42	Unit 22	
Unit 25		Unit 23	

Mapping 2010 BTEC in IT units to Cambridge Technicals in IT 2016 units

The table below shows how the 2010 BTEC units map to the Cambridge Technicals 2016 units.

2010 BTEC in IT units			Cambridge Technicals in IT 2016 units	
Unit no.	Unit title	Comment	Unit no.	Unit Title
1	Communication and Employability Skills for IT	Some of the content maps	1	Fundamentals of IT
2	Computer Systems	Some content exists in multiple units	1 18 19	Fundamentals of IT Computer systems – hardware Computer systems - software
3	Information Systems	Some content exists in multiple units	1 2 13	Fundamentals of IT Global information Social media and digital marketing
4	Impact of the Use of IT on Business Systems	Some of the content maps	17	Internet of everything
5	Managing Networks	Some content exists in multiple units	1 4	Fundamentals of IT Computer networks
6	Software Design and Development	Some content exists in multiple units	7 11	Data analysis and design Systems analysis and design
7	Organisational Systems Security	Some content exists in multiple units	1 3	Fundamentals of IT Cyber security
8	e-Commerce	Some content exists in multiple units	1	Fundamentals of IT
9	Computer Networks	Some content exists in multiple units	1 4	Fundamentals of IT Computer networks
10	Communication Technologies	Some content exists in multiple units	1 4	Fundamentals of IT Computer networks
11	Systems Analysis and Design	Some content exists in multiple units	7 11	Business computing Systems analysis and design
12	IT Technical Support	Some content exists in multiple units	1 20	Fundamentals of IT IT Technical support
13	IT Systems Troubleshooting and Repair	Some content exists in multiple units	1 20	Fundamentals of IT IT Technical support

2010 BTEC in IT units				
Unit no.	Unit title	Comment	Unit no.	Unit Title
14	Event Driven Programming	Some content exists in multiple units	9 10 14	Product development Business computing Soft Engineering for Business
15	Object Oriented Programming	Some content exists in multiple units	9 10 14	Product development Business computing Soft Engineering for Business
16	Procedural Programming	Some content exists in multiple units	9 10 14	Product development Business computing Soft Engineering for Business
17	Project Planning with IT	Maps well	8	Project management
18	Database Design	Some content exists in multiple units	9 10 22	Product development Business computing Big Data Analytics
19	Computer Systems Architecture	Some content exists in multiple units	1 4	Fundamentals of IT Computer Networks
20	Client Side Customisation of Web Pages	Some content exists in multiple units	14 21	Soft Engineering for Business Web Design and prototyping
21	Data Analysis and Design	Some content exists in multiple units	7 10	Business computing Data analysis and design
22	Developing Computer Games	Some of the content maps	15	Games design and prototyping
23	Human Computer Interaction	This unit does not exist in the new Cambridge Technicals in IT		
24	Controlling Systems Using IT	Some content exists in multiple units	6 9	Application design Product development
25	Maintaining Computer Systems	Some content exists in multiple units	1 18 19	Fundamentals of IT Computer systems – hardware Computer systems - software
26	Mathematics for IT Practitioners	This unit does not exist in the new Cambridge Technicals in IT		

MAPPING

2010 BTEC in IT units				
Unit no.	Unit title	Comment	Unit no.	Unit Title
27	Web Server Scripting	Some content exists in multiple units	14 21	Soft Engineering for Business Web Design and prototyping
28	Website Production	Some content exists in multiple units	1 21	Fundamentals of IT Website design and prototyping
29	Installing and Upgrading Software	Some content exists in multiple units	1 19	Fundamentals of IT Computer systems – software
30	Digital Graphics	Some content in unit 5 This unit also partially maps to unit 13: Graphic design for digital media products in the Cambridge Technical in Media	5	Virtual and augmented reality
31	Computer Animation	Some content in unit 5 This unit now partially maps to unit 10 – Creating a digital animation in the Cambridge Technical in Media	5	Virtual and augmented reality
32	Networked Systems Security	Some content exists in multiple units	1 2 3 4	Fundamentals of IT Global information Cyber security Computer networks
33	Supporting Business Activity	This unit does not exist in the new Cambridge Technicals in IT		
34	Business Resources	This unit does not exist in the new Cambridge Technicals in IT		
35	Digital Graphics for Interactive Media	This unit does not exist in the new Cambridge Technicals in IT		
36	Computer Game Platforms and Technologies	Some of the content maps	1	Fundamentals of IT
37	2D Animation Production	Some content exists in multiple units	9 5	Product development Virtual and augmented reality
38	Interactive Media Authoring	Some content exists in multiple units	9 5	Product development Virtual and augmented reality

2010 BTEC in IT units				
Unit no.	Unit title	Comment	Unit no.	Unit Title
39	Web Animation for Interactive Media	Some content exists in multiple units	9 5	Product development Virtual and augmented reality
40	Computer Game Design	Some of the content maps	15	Games design and prototyping
41	3D Modelling	This unit now partially maps to unit 13 3D digital modelling in the Cambridge Technical in Media		
42	Spread sheet Modelling	Some of the content maps	1	Fundamentals of IT
43	Multimedia Design	This unit does not exist in the new Cambridge Technicals in IT		
	Vendor units	CompTIA and Cisco certifications map to multiple units in the new Cambridge Technicals		See full unit specifications for details and new CompTIA mapping document



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