



Learning resources

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Introduction

To support practitioners in the delivery of NCFE supplied T Level¹ Technical Qualifications, NCFE have developed a suite of essential and additional materials.

All materials are accessed from the relevant qualification page which can be accessed from www.qualhub.co.uk

Essential materials

Are free of charge and have been developed to support teaching covering some of the challenging to teach areas of the T Level and are designed to support tutors planning and delivery of the qualification. We have provided packaged sessions by element and component.

Additional materials

The approach to the additional material purchase differs across the waves of implementation as we have responded to provider need. These materials also cover some of the challenging to teach areas of the T Level as identified through consultation with providers and subject specialist.

Wave 1

Additional materials for the T level in Education and Childcare are available in session format and the full suite of core resources can be purchased for £995.00. The core sessions have been produced in a thematic approach however if you are not delivering in this way support documents are available which map to the individual core elements.

The Occupational Specialisms sessions are priced at £10 per session and can be purchased in bundles or as a full pathway suite.

Wave 2

Additional materials are priced at £29 per module. Modules have been placed in to bundles for ease of purchase. Providers have the option to purchase by bundle or full pathway suite.

Please note that some bundles, whilst packaged for a single Technical Qualification, have relevance across other pathways. This is noted in the table by a *.

All resources will be reviewed annually and dependent on the scale of the change may be subject to additional charges.

Please note: all prices quoted are ex-VAT.

¹ T Level is a registered trademark of the Institute for Apprenticeships and Technical Education
The T Level Technical Qualification is a qualification approved and managed by the Institute for Apprenticeships and Technical Education

T Level Technical Qualification Education and Childcare (603/5829/4)

Essentials offer: core component

Theme and Session Number	Session detail (Core component)	Total number of sessions
Theme 1 <i>(Elements 1 and 9)</i>		
Sessions 7-10, 30, 36-38	School provision The National Curriculum and Prevent Regulation of education Communicating information to parents and carers Reflection, feedback and professional development Revision sessions x 3	8 x 2 hr sessions
Theme 2 <i>(Elements 4,7,12)</i>		
Sessions 1- 2, 12, 21-22,25,32,36	Areas of development in Education & Childcare Physical development Revision sessions Supporting and managing positive behaviour Strategies to address behaviour Exploring learning English as an additional language (EAL) Revision session x 3	8 x 2 hr sessions
Theme 3 <i>(Elements 2,8)</i>		
Session 27-31 & 41	The EYFS and National Curriculum Evaluate teaching resources and plan activities Formative and summative assessment The observation, assessment, and planning cycle Assessment in the National Curriculum Revision session x 1	6 x 2 hr sessions
Theme 4 <i>(Elements 3,10,11)</i>		
Sessions 1-2, 6-7, & 16	Overview of legislation Health and Safety legislation Equality and Diversity Part 1 Equality and Diversity Part 2 Exploring SEND and the role of the SENDCo	5 x 2 hr sessions

Theme 5 <i>(Elements 5,6)</i>		
Session 4-5	Partnership working with parents/carers Supporting the involvement of parents/carers in their child's education The role and range of agencies and professional services Exploring professional roles Revision sessions x 9 including revision session on Theorists	13 x 2 hr sessions
		Total: 39 sessions

Additional Offer: core component

Theme and Sessions number	Session detail (Core component)	Total number of sessions
Theme 1 <i>(Elements 1 and 9)</i>		
	Early years provision Primary, secondary and alternative provision Post-16 provision Overview of childcare and education 0–19 years Presentation preparation Peer presentations Information leaflets for parents and carers Features of early years and primary school provision Features of secondary and alternative provision Features of post-16 provision Ask the expert 1 Ask the expert 2 Revision Session Job roles in education and childcare Career routes in education and childcare Knowledge, skills and behaviours in job roles Demonstrating knowledge, skills and behaviours Job roles and organisational structures Roles and responsibilities Apprenticeship standards Early Years Foundation Stage (EYFS) Key stages in the National Curriculum Activity carousel Staff interview	30 x 2 hr sessions

	<p>KSBs, job roles and educational stages Experiential learning and models of reflection Gibbs' reflective cycle and Schön's work on reflection SWOT analysis Personal development planning Actions to support continuous professional development Revision Session x 3</p>	
Theme 2 <i>(Element 4,7 & 12)</i>		
	<p>Social and emotional development Speech, language and communication development Cognitive development Holistic development Development wheels Activity planning Planning practical activities Practical activity workshop Factors impacting holistic development Attachment theory Trevarthen and Laevers The role of the Key Person Social theory and stages of friendship Self-concept Expectations of behaviour Factors affecting behaviour The effects of self-concept on holistic development Assessing risk Positive learning environments to motivate and stretch learners Transitions and their impact Strategies for supporting children and young people's transitions Plan for the impact of transitions The impact of the practitioner on children's behaviour Receptive and expressive language Exploring how to promote language development for all children and young people Demonstration of how guidance & teachers support home languages & those learning EAL. Stages of acquiring EAL and the needs of the learner Activities, experiences and strategies to engage learning of EAL REVISION SESSION</p>	28 x 2 hr sessions
Theme 3 <i>(Elements 2 and 8)</i>		

	<p>Child-initiated approaches and adult-led approaches to activities Differentiation and experiential learning Peer teaching and assessment Problem-based learning and content-based instruction Simulation and role play Peer presentations: teaching and learning approaches Pedagogical approaches and influential theorists Pedagogical theories: behaviourism Pedagogical theories: cognitivist approach Pedagogical theories: constructivist approach Pedagogical theories: humanist approach Pedagogical theories: connectivist approach Pedagogical theories: influences on educational practice Metacognition: becoming an effective learner Metacognitive strategies for learning and development Factors affecting cognitive development Positive adult intervention in cognitive development The role of play in learning and development Different types of play Metacognition and play The importance of planning the role of space for play in the classroom The role of the childcare professionals in supporting emotional and social development The transition of play from Primary to Secondary The Role of Metacognition in Practitioners' Learning and Teaching The role of assessment in developing students' metacognitive abilities Metacognitive approaches within the curriculum Assessment for multi-agency purposes The effective planning cycle and the impact of feedback Benchmark Assessment in the National Curriculum Literacy and reading development Writing development Maths development Schools, inspections and reforms National assessments and technology Mental health and wellbeing</p>	<p>36 x 2 hr sessions</p>
<p>Theme 4 (Element 3,10 & 12)</p>		
	<p>GDPR Safeguarding Safeguarding legislation and guidance SEND Code of Practice Part 1</p>	<p>20 x 2 hr sessions</p>

	<p>SEND Code of Practice Adaptations Legislation, guidance and policies in Education and Childcare Safeguarding and emotional well-being for children and young people How practitioners can empower and enable children and young people e-safety and the risks technology can pose to children and young people Warning signals which may indicate that a child is at risk Safeguarding in the context of child protection Types of SEND and their impact The impact of SEND for learning Supporting children and young people with SEND SLC difficulties and chronic conditions Statutory guidance and legislation that helps to support those with SEND Understand the knowledge, skills and behaviours needed to work with SEND in education and childcare Understand a person-centred response to disability and the benefits of multi-agency working Understand a person-centred response to disability and the benefits of multi-agency working Understand inclusive practice in childcare and education</p>	
<p>Theme 5 <i>(Element 5 & 6)</i></p>		
	<p>The role and responsibilities of parents and carers Professional boundaries and relationships Policies and procedures for involving parents/carers Enabling students to understand the meaning of 'family' and the associated expectations Understanding 'family' and the associated expectations Analysing case studies to identify parenting styles and the need for support Applying knowledge to role play scenario The importance of sensitivity to different parenting styles Review working in partnership with parents and carers. Review of confidentiality and information sharing. Review of working collaboratively with agencies and professionals.</p>	<p>13 x 2 hr sessions</p>
	<p>Total cost £995.00</p>	<p>Total: 127 sessions</p>

Essential offer – Occupational Specialism - Early Years Educator

PO and Session Number	Session detail (Core component)	Total number of sessions
PO1 - Session 1	Expected patterns of children's development (Physical development)	1 x 2 hr session
PO2 - Session 4	Secure attachments	1 x 2hr session
PO3 - Session 1	The purpose of observation and assessment to support progress	1 x 2 hr session
PO4 - Session 1	The key principles of safeguarding	1 x 2 hr session
PO5 - Session 1	The basis of positive partnership working with parents/carers	1 x 2 hr session

Additional offer - Occupational Specialism - Early Years Educator

Session numbers align to the EYE Occupational Specialism Scheme of Work.

Bundle	Detail	Number of sessions	Bundle session total	Cost per bundle
1				
PO1	Factors influencing children's development	15	24 x 2 hrs	£240.00
	The impact of biological and environmental factors on holistic development			
	Mathematical learning through games and stories			
	Developing resources to promote mathematical concepts			
	Presenting resources to promote mathematical concepts			
	Using observational assessment to identify children's mathematical skills			
	Stages and types of play			
	Resources to support children's play and education			
	Child-initiated and adult-led play			
	Theoretical perspectives on play: Janet Moyles and Tina Bruce			
	Theoretical perspectives on play: Elinor Goldschmied and Maria Montessori			
	Theoretical perspectives on outdoor play: Margaret McMillan and Forest Schools			
	Theoretical perspectives on play: HighScope and Steiner			
	Researching theoretical perspectives on play			
Presenting theoretical perspectives on play				
PO2	Introduction to attachment	9		
	Different attachments and their characteristics			
	Attachment and the key person approach			
	Self-regulation and co-regulation			
	A nurturing environment			
	Weak attachments			

	An introduction to transitions and weak events			
	Strategies to support transitions and significant events			
	Working with others to support transitions and significant events			
2				
PO3	Formative assessment	7	20 x 2hrs	£200.00
	Summative assessment			
	Planning educational opportunities for children			
	Reflective practice			
	Continuous professional development in early years practice			
	Reviewing evidence-based practice			
	CPD planning			
PO4	Child grooming and exploitation	8		
	Taking appropriate action to suspected abuse			
	Researching safeguarding case reviews			
	Factors contributing to children's health and wellbeing			
	How health and wellbeing supports children's holistic development			
	Supporting children's health and wellbeing			
	Supporting children's healthy lifestyles and care routines			
Supporting children to make and maintain friendships				
PO5	Parental rights	5		
	Parenting styles			
	Family structures			
	Impacts on parenting part 1			
	Impacts on parenting part 2			
			Total cost	£440.00

Essential offer -- Occupational Specialism- Assisting Teaching

PO and Session Number	Session detail (Core component)	Total number of sessions
PO1- Session 1	Core requirements of the national curriculum	1 x 2 hr session
PO2- Session 1	Planning for learning	1 x 2hr session
PO3 - Session 1	Safeguarding	1 x 2 hr session
PO4 - Session 1	Introduction to language acquisition and non-verbal language	1 x 2 hr session

Additional offer - Occupational Specialism - Assisting Teaching

Bundle	Detail	Number of sessions	Bundle session total	Cost per bundle
1				
PO1	Teacher and student led pedagogical strategies	9	19 x 2 hrs	£190.00
	Theoretical approaches which underpin pedagogical strategies			
	Effective teaching and learning			
	Managing behaviour			
	Outdoor learning			
	Supporting outdoor learning opportunities			
	Practical experience of outdoor learning			
	Theories of outdoor learning			
	Planning for outdoor learning			
	PO2			
Practical mathematics				
Mathematics in the early years				
Promoting mathematical thinking				
Mathematical support skills				
Literacy development				
Practical literacy				
Literacy in the early years				
Strategies to promote literacy				
Effective literacy sessions				
2				
PO3	Wellbeing	10	20 x 2hrs	£200.00
	Risks to wellbeing			
	Transitions			
	Peer and adult relationships			
	Family structure and parenting			
	Behaviourist approaches			
	Promoting positive behaviour			
	Physical care needs			
	Self-care skills			
	Relating to others			
PO4	Speech, language and communication development	10		
	Holistic development			
	Language acquisition			
	Theoretical approaches to language acquisition			
	Factors affecting communication and speech development			

	Cognitive difficulties			
	English as an additional language			
	Autistic spectrum disorder			
	Self-concept			
	Positive self-concept and self-management			
			Total cost	£390.00

Essential offer - Occupational Specialism - Supporting mentoring

PO and Session Number	Session detail (Core component)	Total number of sessions
PO1 -Session 1	Exploring vocational and pastoral roles in an educational setting	1 x 2 hr session
PO2- Session 7	The benefits of workplace training opportunities in education	1 x 2 hr session
PO3- Session 1	Information sharing and safeguarding	1 x 2 hr session
PO4- Session 13	Strategies to support mentees	1 x 2 hr session

T Level Technical Qualification in Health (603/7066/X)

Essential offer: core component

Element and Session Number	Session detail (Core component)	Total number of sessions
A3		
(Sessions 5 and 6)	A3.3 How health and safety at work is promoted. A3.4 How to deal with situations that can occur in a health or science environment that could cause harm to self or others (for example, spillage of hazardous material).	2 x 3 hr sessions
A5		
(Sessions 5-8)	A5.3 The importance of accuracy, attention to detail and legibility of any written information or data. A5.6 How personal information is protected by data protection legislation, regulations and local ways of working/organisational policies. A5.7 How to ensure confidentiality when using screens to input or retrieve information or data. A5.8 The positive use of, and restrictions on the use of, social media in health and science sectors	4 x 3 hr sessions
A7		
(Session 9)	A7.9 Why it is important to order and manage stock. A7.10 The potential consequences of incorrectly storing products, materials and equipment.	1 x 3 hr session
A8		
(Sessions 4-7)	A8.3 The role of a range of regulatory bodies within the health sector. A8.5 The key values of the healthcare sector when providing care and support. A8.15 What the 6 Cs are in relation to person-centred care. A8.16 The importance of practicing and promoting the 6 Cs in relation to demonstrating person-centred care skills, through own actions and promoting the approach with others.	6 x 3 hr sessions
(Sessions 11 and 12)	A8.7 A range of verbal and nonverbal communication techniques, potential communication barriers and how to overcome them to support an individual's condition. A8.11 How to promote independence and self-care and the positive impact on the healthcare sector.	
A9		
(Session 1-4)	A9.1 Changes in the approach to healthcare and how to support a person's health, comfort and wellbeing. A9.4 The prevention agenda and the concept of preventative approaches for moving towards good health and wellbeing. A9.5 The ways in which health promotion is used to support the prevention agenda to support good health and wellbeing. A9.6 The overarching principle of the opportunistic delivery of health promotion through the 'Making Every Contact Count' (MECC) initiative and the risk factors this initiative targets.	7 x 3 hr sessions
(Session 8-10)	A9.10 The impact of the ageing process on health and wellbeing.	

	A9.3 How to work in a person-centred way, to ensure adequate nutrition, hydration and care are provided to prevent deterioration in the individual's wellbeing. A9.2 How to recognise the signs and symptoms of a person who is experiencing pain and discomfort and/or whose health and wellbeing is deteriorating.	
A10		
(Sessions 1-3)	A10.1 The techniques for infection control and why they're important in stopping the spread of infection. A10.2 The importance of good handwashing techniques and personal hygiene and how to practice this in relation to infection control.	3 x 3 hr sessions
B1 *		
(Sessions 12-16)	1.20 The classification and characteristics (size of cell, type of cell, presence of organelles) of microorganisms. 1.21 The benefits of using the following microscopes when investigating microorganisms. 1.22 How to calculate magnification from the size of the image and the size of the object. 1.23 The uses of differential staining techniques. 1.24 The nature of infection. 1.25 Causative agents of infection and examples of resulting diseases. 1.26 The different ways in which causative agents may enter the body (for example transmission routes).	7 x 3 hr sessions
(Sessions 38 & 39)	1.62 The use of the international system of units (SI). 1.63 How to convert units 1.64 The importance of using significant figures and science notation.	
B2 -Health		
(Session 16)	B2.17 Injury and trauma and how the body reacts systematically as a response.	1 x 3 hr session

Additional offer: core component

Bundle		Module detail	Number of modules	Bundle module total	Cost per bundle
1					
B2: Further Science Concepts	1	B2.1 The components of the endocrine system; where they are located, their function and structure including how they are organised.	5	5	£145.00
	2	B2.2 The components of the respiratory system; where they are located, their function and structure including how they are organised.			
	3	B2.3 The components of the nervous system; where they are located, their function and structure including how they are organised.			
	4	B2.6 The components of the cardiovascular system; where they are located, their function and structure including how they are organised.			
	5	B2.8 The components of the renal system; where they are located, their function and structure including how they are organised.			
2					
A7: Good scientific and clinical practice	1	A7.1 The principles of good practice in scientific and clinical settings.	6	6	£174.00
	2	A7.2 What a SOP is.			
	3	A7.3 Why it is important for everyone to follow SOPs.			
	4	A7.4 How to access SOPs for a given activity.			
	5	A7.7 Why it is important to calibrate and test equipment to ensure it is fit for use.			
	6	A7.8 How to escalate concerns if equipment is not correctly calibrated/unsuitable for intended use.			
3.					
A1: Working within the health and science sector	1	A1.1 The purpose of organisational policies and procedures in the health and science sector.	3	10	£290.00
	2	A1.2 The importance of adhering to quality standards, quality management and audit processes within the health and science sector.			
	3	A1.3 The key principles of ethical practice in the health and science sectors.			
A2: The Healthcare Sector	1	A2.1 The diversity of employers and organisations within the healthcare sector.	7		
	2	A2.10 The different types of organisational structures within the healthcare sector and the resulting jobs roles.			

	3	A2.5 The origins of the healthcare sector and how this has developed into the healthcare sector we have today.			
	4	A2.8 The different ways in which the sectors are funded.			
	5	A2.4 How the use of different developments in technology support the healthcare sector.			
	6	A2.6 The potential impacts of future developments in the healthcare sector in relation to care provision.			
	7	A2.9 The meaning of evidence-based practice, its application and how it benefits and improves the healthcare sector.			
4					
A3: Health, safety and environmental regulations in the health and science sector	1	A3.2 How to assess and minimise potential hazards and risks, including specific levels of risk, by using the Health and Safety Executive's 5 Steps to Risk Assessment.	1	6	£174.00
A4: Health and safety regulations applicable in the healthcare sector	1	A4.1 The purpose of workplace health and safety regulations in the health sector.	5		
	2	A4.2 The purpose of specific health and safety regulations, guidance and regulatory bodies in relation to the health sector.			
	3	A4.3 The overarching responsibilities of trained first aiders.			
	4	A4.4 The purpose of guidelines produced by the Resuscitation Council (UK).			
	5	A4.5 The purpose of manual handling regulations and training, including why it's important to follow policy and guidance when moving, positioning people, equipment or other objects safely.			
5					
A6: Managing personal information	1	A6.5 The advantages of reporting systems for managing information with regards to incidents, events and conditions.	2	5	£145.00
	2	A6.4 The purpose of common abbreviations used in the healthcare sector.			
A11: Safeguarding	1	A11.6 What action to take if abuse is suspected or disclosed.	3		
	2	A11.7 Action that can be taken by individuals and organisations to reduce the chances of abuse.			
	3	A11.8 The meaning of patient safety and clinical effectiveness including why they're important.			
				Total cost	£928.00

Essential offer – Occupational Specialism – Supporting the Adult Nursing Team

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 7	Promoting and supporting wellbeing in relation to nutrition and hydration	1 x 3 hr session
PO2 - Sessions 2	The symptoms and implications associated with frailty	1 x 3hr session
PO3 - Session 6	Pressure injuries	1 x 3 hr session

Essential offer – Occupational Specialism – Supporting the Midwifery Team

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 9	Healthy diet for mothers during pregnancy	1 x 3 hr session
PO2 – Session 5	Supporting the health and wellbeing of mothers and babies	1 x 3hr session
PO3 - Session 1	Newborn screening tests	1 x 3 hr session

Essential offer – Occupational Specialism – Supporting the Care of Children and Young People

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 22	Equipment used when assisting with clinical tasks for children and young people	1 x 3 hr session
PO2 – Session 22	Impacts of sickness on children and young people's health and wellbeing	1 x 3hr session
PO3 – Session 4	Provisions and services for looked after children	1 x 3 hr session

Essential offer – Occupational Specialism – Supporting the Mental Health Team

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 3	The importance of mental and physical wellbeing.	1 x 3hr session
PO2 – Session 6	Strengths and limitations of the main treatment interventions	1 x 3hr session

Essential offer – Occupational Specialism – Supporting the Therapy Teams

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 15	How physical and mental conditions can impact on the use of a particular therapeutic intervention	1 x 3 hr session
PO2 – Session 14	Advice that may be provided as part of therapy	1 x 3hr session
PO3 – Session 1	Suitable environments for the undertaking of therapeutic tasks	1 x 3 hr session

Essential offer – Occupational Specialism – Supporting Healthcare

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 33	Learning disabilities	1 x 3 hr session
PO2 – Session 4	Clinical and therapeutic tasks registered professionals can undertake	1 x 3hr session
PO3 – Session 1	Physiological measurements	1 x 3 hr session

Essential offer: Occupational Specialism – Dental Nursing (under development, coming soon)

Schemes of Work	Title
Performance Outcome 1	Carry out a range of dental procedures to support dental professionals at 'chairside'
Performance Outcome 2	Provide factual information and up to date advice to help patients to maintain and improve their oral health
Performance Outcome 3	Accurately record patients' dental information to contribute to their treatment and dental care on dental charts, using technology where appropriate
Performance Outcome 4	Prepare, mix and handle filling and impression material in an appropriate and timely way

Additional offer: Occupational Specialisms - Supporting the Adult Nursing Team (under development, coming soon)

PO	Detail	Total Cost
PO1 to PO3	<p>K1.1 The importance of adhering to current legal policy and service frameworks when assisting with delegated clinical skills for adults.</p> <p>K1.2 The relevance of current guidelines, standards, policies and frameworks, set by government, regulatory bodies and delivery partners to ensure core values of care are adhered to when assisting the adult nursing team with clinical skills.</p> <p>K1.9 How the collection of specimens and undertaking individual observations in adult nursing supports a range of risk assessments and clinical assessments undertaken by registered professionals.</p> <p>K1.13 When monitoring, recording and supporting the overall care and wellbeing of individuals, the range of equipment and resources used, where to source and how to check them.</p> <p>K1.14 The procedures of how to check emergency equipment (for example a resuscitation trolley).</p> <p>K1.16 The range of checks to emergency equipment and why these checks are carried out.</p> <p>K2.4 The different types of carers and their role in meeting the needs of individuals.</p> <p>K2.5 The concept of informal carers and the general rights of carers when supporting individuals to meet activities of daily living.</p> <p>K2.6 The possible roles of informal carers and the importance of working in partnership with them, when supporting individuals to meet activities of daily living.</p> <p>K2.8 The importance of early diagnosis in relation to dementia and other cognitive issues, why depression delirium and the normal ageing process may be mistaken for dementia and how other conditions may contribute to early onset dementia.</p> <p>K2.9 The factors that impact on the care of the dying and the deceased to ensure most appropriate care is provided:</p> <p>K3.2 The pathophysiology of the skin ageing process and the factors affecting skin integrity</p> <p>K3.3 Common skin conditions seen in individuals and the possible causes of skin conditions: K3.5 How to carry out assessments of skin integrity and why it is important to do so K3.6 The types of treatment that can be used to care for skin and prevent or treat skin conditions</p>	
	15 Modules	£435

Additional offer: Occupational Specialisms - Supporting Healthcare

PO	Detail	Total Cost
PO1 to PO3	K1.12 How to recognise the signs and symptoms of a person who is experiencing pain and discomfort and/or whose health and wellbeing is deteriorating K1.10 How to recognise indicators of deteriorations in physical and mental health K1.13 How and why to report changes and deterioration when supporting individuals K2.2 What the scope of their role is when assisting registered health professionals K3.6 Major factors that influence changes in physiological measurement	
	5 Modules	£145

T Level Technical Qualification in Science (603/6989/9)

Essential offer: core component

Element and Session Number	Session detail (Core component)	Total number of sessions
A2		
(Sessions 1-3)	2.1 Factors that contribute to the diversity of employers and organisations within the science sector. 2.2 The diversity of work undertaken in different job roles within the science sector. 2.3 Possible employers and job roles that require the application of science in non-science sectors.	5 x 3 hr sessions
(Sessions 11-12)	2.11 How organisations in the science sector ensure compliance with internal and external regulations. 2.12 How regulatory controls apply in different working environments.	
A4		
(Session 3)	4.2 How the Environmental Protection Act 1990 relates to practices in scientific workplaces. 4.3 The consequences of breaching environmental legislation.	1 x 3hr session
A6		
(Session 1)	6.1 The stages of data handling and processing. 6.2 The difference between qualitative and quantitative data	2 x 3 hr sessions
(Session 3)	6.5 The difference between systematic and random data errors. 6.6 How to minimise errors occurring in a scientific setting.	
A7		
(Sessions 1 and 2)	7.1 The key aims of ethical scientific practices as outlined in 'Rigour, Respect, Responsibility a Universal Ethical Code for Scientists 2007'. 7.2 How to demonstrate integrity in a scientific setting. 7.3 The purpose of codes of practice within organisations. 7.4 The importance of respect in the workplace.	2 x 3 hr sessions
A9		
(Session 4)	9.4 How customer/client requirements may affect the scientific methodology. 9.5 How to provide results and recommendations in appropriate formats to customers/clients	1 x 3 hr session
A10		
(Session 1-6)	10.3 Applications of the following equipment when undertaking scientific techniques. 10.4 The appropriate techniques for handling a range of different substances (for example, solids, liquids and gases). 10.5 Appropriate equipment to measure accurate results for scales. 10.6 How to use a light microscope.	6 x 3 hr session

B1 *		
(Sessions 12-16)	1.20 The classification and characteristics (size of cell, type of cell, presence of organelles) of microorganisms. 1.21 The benefits of using the following microscopes when investigating microorganisms. 1.22 How to calculate magnification from the size of the image and the size of the object. 1.23 The uses of differential staining techniques. 1.24 The nature of infection. 1.25 Causative agents of infection and examples of resulting diseases. 1.26 The different ways in which causative agents may enter the body (for example transmission routes).	7 x 3 hr sessions
(Sessions 38 & 39)	1.62 The use of the international system of units (SI). 1.63 How to convert units 1.64 The importance of using significant figures and science notation.	
B2 –Science		
(Sessions 19-21)	2.21 A range of factors affecting the rates of chemical reactions. 2.22 How to calculate the rate of reaction. 2.24 The action of a catalyst, in terms of providing an alternative pathway with a lower activation energy. 2.25 The advantages of using a catalyst in industrial reactions . 2.26 How to use the Maxwell Boltzmann distribution of molecular energies to explain, qualitatively, how changes in temperature and the presence of a catalyst affect the rate of a reaction.	3 x 3 hr sessions

Additional offer: Core component

Bundle		Module detail	Number of modules	Bundle module total	Cost per bundle
1					
A2 The Science Sector	1	A2.7 The principles of good laboratory practice (GLP).	3	5	£145.00
	2	A2.8 The principles of good manufacturing practice (GMP)			
	3	A2.10 The difference between quality assurance and quality control.			
A6: Data handling and processing	1	A6.9 The purpose of the following statistical techniques when analysing data.	2		
	2	A6.13 Links between sample size and effective statistical analysis.			
2					
B1 Core Science Concepts	1	1.7 The relationship between the structure, properties and functions of proteins.	17	17	£493.00
	2	1.8 The relationship between the structure, properties and functions of carbohydrates.			
	3	1.9 The relationship between the structure, properties and functions of lipids.			

4	1.13 The purpose of deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) as the carrying molecules of genetic information and the role they play in the mechanism of inheritance. 1.14 The relationship between the structure of DNA and RNA and their role in the mechanism of inheritance.			
5	1.15 The function of complementary base pairing in forming the helical structure of DNA. 1.16 The process and stages of semi-conservative replication of DNA.			
6	1.17 How this semi-conservative replication process ensures genetic continuity between generations of cells. 1.18 The link between the semi-conservative replication process and variation. 1.19 The difference between genetics and genomics.			
7	1.27 How infectious diseases can spread amongst populations and communities. 1.28 The definition of an antigen and an antibody. 1.29 The link between antigens and the initiation of the body's response to invasion by a foreign substance.			
8	1.30 The stages and cells involved in the body's response to an antigen.			
9	1.31 The differences between cell-mediated immunity and antibody-mediated immunity. 1.32 The role of T and B memory cells in the secondary immune response.			
10	1.36 The physical and chemical properties of acids. 1.37 The concept of strong and weak acids (as distinct from dilute and concentrated solutions). 1.38 How to determine the name of the salt produced in the following acid-base reactions.			
11	1.39 The principles of collision theory. 1.40 The effect of temperature on rates of reaction. 1.41 The definition of a catalyst and the role of catalysts in a reaction.			
12	1.42 The principles of the following tests and techniques used to separate substances in order to detect or identify chemical composition.			
13	1.43 The tests that could be used to quantify components in a mixture. 1.44 The principle of titration.			
14	1.45 The definitions of, and how to calculate, charge and current using $Q = IT$. 1.46 The definitions of, and how to calculate, current, potential difference and resistance, using Ohm's law $V = IR$.			
15	1.47 How to calculate total resistance of multiple fixed resistors in a series and parallel circuit. 1.48 The difference between alternating and direct current. 1.49 The properties of mains electricity in the United Kingdom.			
16	1.53 The definition of a wave.			

		1.54 The relationship between frequency, wavelength and speed using the wave equation $v = f$ 1.55 The properties of longitudinal and transverse waves.			
	17	1.55 The properties of longitudinal and transverse waves. 1.56 The uses of different types of waves.			
3					
B2 Further Science Concepts	1	B2.2 The role of DNA bases in the production of amino acid chains, which form proteins.	14	14	£406.00
	2	B2.3 How the process of protein synthesis occurs.			
	3	B2.4 The properties of enzymes that are determined by their tertiary structure.			
	4	B2.5 How enzymes' mechanism of action allows them to catalyse a wide range of intracellular reactions.			
	5	B2.6 The function of both mitosis and meiosis in nuclear division within cells.			
	6	B2.7 The characteristics of each of the stages of mitosis, including the behaviour of chromosomes and the cellular structure at each stage.			
	7	B2.8 How the process of meiosis, including phase 1 and phase 2, results in the formation of haploid gametes from diploid cells in the reproductive organs.			
	8	B2.9 The significance of the differences between mitosis and meiosis.			
	9	B2.15 How to balance a given equation based on some specific reactions.			
	10	B2.16 How an empirical formula represents the simplest ratio of atoms of each element in a compound.			
	11	B2.17 How to use the empirical formula and relative molecular mass to work out the molecular formula of a compound.			
	12	B2.32 How the gas laws (Boyles, Charles and the pressure law) describe the behaviour of gases in particular conditions.			
	13	B2.33 The use of the kelvin temperature scale in describing the behaviour of gases in particular conditions.			
	14	B2.34 The effect of compression when storing gases in cylinders			
				Total cost	£1044.00

Essential offer – Occupational Specialism – Lab Science

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 88	Laboratory techniques	1 x 3 hr session
PO2 – Session 17	Laboratory processing and analysis	1 x 3hr session
PO3 - Session 14	Laboratory data errors	1 x 3 hr session

Essential offer – Occupational Specialism – Food Science

PO and Session Number	Session detail	Total number of sessions
PO1 – Session 1	An introduction to HACCP	1 x 3 hr session
PO2 – Session 1	What is new product development (NPD)	1 x 3hr session
PO3 - Session 1	Methods for identifying and solving problems	1 x 3 hr session
PO4 - Session 1	The need for accurate data to base decisions on	1 x 3hr session

Additional offer: Occupational Specialism – Lab Sciences (under development, coming soon)

PO	Detail	Total Cost
PO1 to PO3 (20 Modules)	<p>K1.1 How health, safety and environmental practices are applied when performing scientific techniques</p> <p>K1.7 The definitions of orbital and nucleus. K1.8 How electrons are arranged in s and p suborbitals from periods 1 to 4. K1.9 How the electron arrangement in s and p orbitals is linked to the way in which elements are situated in s and p blocks in the periodic table</p> <p>K1.15 The different types of bonds including ionic, metallic and covalent and how they are formed in relation to electrons. K1.16 The structure of substances in relation to ionic, metallic and covalent bonding,. K1.17 The relationship between the electron pair repulsion theory and the shapes of the following molecules.</p> <p>K1.19 How to apply the International Union of Pure and Applied Chemistry (IUPAC) rules to name the following organic compounds. K1.20 The word and symbol equations to show reactions of the following organic compounds</p> <p>K1.26 Factors that affect the stability of compounds and the chance of chemical reactions occurring. K1.27 How to perform calculations of enthalpy changes</p>	

	<p>K1.31 The main activities and outputs of the 4 pathways of aerobic respiration involving glucose and how each of these stages is linked</p> <p>K1.32 The main activities and outputs of betaoxidation and the role of beta-oxidation in aerobic respiration when an alternative initial substrate is used. K1.33 How metabolic pathways are regulated by enzymes and feedback mechanisms</p> <p>K1.52 When it is appropriate to use the following techniques to identify/determine, separate or analyse substances and environments</p> <p>K1.53 The purpose of the following environmental laboratory techniques</p> <p>K1.55 How physics laboratory techniques are applied in different fields</p> <p>K1.56 The purpose of the following techniques, particularly those related to genomics</p> <p>K1.60 The purpose of cryogenic equipment in a laboratory environment. K1.61 The purpose of the following physics laboratory equipment</p> <p>K1.65 How the following regulations are applied when performing scientific techniques in a laboratory environment</p> <p>K1.66 The role of the following standards and regulatory bodies (including industry specific) within a laboratory environment</p> <p>K2.1 How the following considerations inform the planning of a laboratory task</p> <p>K2.3 The principles of laboratory method validation when planning scientific tasks. K2.4 The principles of laboratory equipment validation when planning scientific tasks</p> <p>K2.7 How to establish the validity of results against standards and controls. K2.8 The purpose of data processing and analysis in supporting improvements to laboratory techniques</p> <p>K2.13 The stages of analytical method transfer when adopting an alternative laboratory method, following regulatory guidelines. K2.14 The importance of quality control in the laboratory environment</p> <p>K3.1 The principles of maintaining, cleaning, calibrating and validating laboratory equipment used to undertake scientific techniques commonly found in a laboratory environment. K3.2 The importance of recognising equipment faults/technical issues in laboratory equipment used to undertake scientific techniques commonly found in a laboratory environment</p>	
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	K3.5 The principles of good documentation practice (GDocP) to prevent data errors. K3.6 How to report and correct recording errors	
	20 Modules	£580

T Level Technical Qualification in Healthcare Science (603/7083/X)

Essential offer: core component

Element and Session Number	Session detail (Core component)	Total number of sessions
A2		
(Sessions 1-4)	<p>2.1 The difference between public, private and charitable healthcare organisations.</p> <p>2.2 The purpose of different organisations and services within the healthcare science sector in the UK.</p> <p>2.3 The difference between primary, secondary and tertiary care.</p> <p>2.4 The diversity of working environments within the healthcare science sector.</p>	6 x 3 hr sessions
(Sessions 13 and 14)	2.14 The benefits of new technology/automation/artificial intelligence within the healthcare science sector.	
A4		
(Sessions 1-3)	<p>4.1 The purpose of specific health and safety regulations, guidance and regulatory bodies in relation to. the healthcare science sector: Health and safety (First Aid) Regulations 1981 and Health and Social Care Act (2012).</p> <p>4.2 The purpose of the Human Medicines (Amendment) Regulations 2019 and the role of the Medicines and Healthcare products Regulatory Agency (MHRA).</p> <p>4.3 The purpose of the Misuse of Drugs Act 1971.</p> <p>4.6 The purpose of the Resuscitation Council (UK) and the guidelines that they produce.</p>	3 x 3 hr sessions
A5		
(Sessions 1-3)	<p>5.1 The National Health Service (NHS) core values and how they underpin the provision of care and support within the healthcare science sector.</p> <p>5.2 The purpose of quality assurance standards within the healthcare science sector.</p> <p>5.6 The purpose of the NHS Constitution.</p> <p>5.7 The role of the Care Quality Commission.</p> <p>5.8 The purpose of the Care Certificate, and who may best be suited to gain a Care Certificate.</p> <p>5.19 The principles of the 6 Cs.</p>	6 x 3 hr sessions
(Sessions 4-6)	<p>5.3 The importance of placing individuals, their carers and significant others at the centre of their care and support.</p> <p>5.4 The principles of choice and consent.</p> <p>5.5 The consequences of undertaking a procedure without gaining consent.</p> <p>5.9 The fundamentals of privacy and dignity of service users.</p> <p>5.10 Techniques that can be used to ensure terms/procedures are always clearly explained to service users/carers, taking into account their individual needs.</p>	
A6		

(Sessions 1-3)	6.1 Techniques for the prevention and control of infection in healthcare science settings, including use of appropriate personal protective equipment (PPE). 6.5 The importance of effective handwashing techniques.	5 x 3 hr sessions
(Sessions 8-9)	6.7 The process of waste management and waste streams, taking into account how to reduce waste. 6.8 Considerations that must be made when deciding upon appropriate waste streams for various types of special and hazardous waste products.	
A8		
(Sessions 1-4)	8.1 The range of methods of recording and reporting service user information and data 8.2 The responsibilities of employees and employers relating to the safe storage of data and notification of insecure data practices. 8.3 The limits of confidentiality where self-harm or harm to others may be involved. 8.7 Factors which would dictate the need to escalate issues relating to service user information.	6 x 3 hr sessions
(Sessions 7-8)	8.5 The role of bioinformaticians and data scientists. 8.6 The advantages of reporting systems for managing information with regards to incidents, events and conditions.	
A10		
(Sessions 5-6)	10.4 How application of quality management policies and procedures facilitates continuous service improvement.	2 x 3 hr sessions
B1 *		
(Sessions 12-16)	1.20 The classification and characteristics (size of cell, type of cell, presence of organelles) of microorganisms. 1.21 The benefits of using the following microscopes when investigating microorganisms. 1.22 How to calculate magnification from the size of the image and the size of the object. 1.23 The uses of differential staining techniques. 1.24 The nature of infection. 1.25 Causative agents of infection and examples of resulting diseases.	7 x 3 hr sessions
(Sessions 38 & 39)	1.26 The different ways in which causative agents may enter the body (for example transmission routes) . 1.62 The use of the international system of units (SI). 1.63 How to convert units 1.64 The importance of using significant figures and science notation.	
B2 – Healthcare Science		
(Sessions 10-13)	2.10 The components of the ocular system and vision; where it is located, it's function and structure including how it is organised. 2.11 The use of physiological measurement tools and techniques in monitoring the action of physiological systems.	4 x 3 hr sessions

	2.12 The normal expected ranges for physiological measurements, how to identify when physiological measurements fall outside the normal expected ranges in adults, including factors that can contribute to measurement outside of usual parameters.	
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Additional offer: core component

Bundle		Module detail	Number of modules	Bundle module total	Cost per bundle
1					
B2: Further Science Concepts	1	B2.18 What is meant by epidemiology and how its objectives provide information to plan and evaluate. strategies to prevent illness, including how this has contributed to the prevention of the spread of specific diseases.	1	1	£29.00
2					
A5: Providing person centred care when working healthcare science	1	A5.11 The responsibilities of employees and employers in relation to equality, diversity and inclusion. Equality/Protected characteristics	12	15	£435.00
	2	A5.12 The importance of ethics and research ethics in the healthcare science sector. Define ethics/ morals. Ethical principles in research			
	3	A5.13 The definition of 'duty of care.			
	4	A5.14 The role of regulating bodies/acts relevant to the 'duty of care' in healthcare science and medical professions.			
	5	A5.15 The consequences of not maintaining 'duty of care. 1.16 The process and stages of semi-conservative replication of DNA.			
	6	A5.16 The purpose of the relevant legislation in the healthcare science sector, in relation to rights of the individual.			
	7	A5.17 The importance and application of probity and candour in a healthcare science setting.			
	8	A5.18 The consequences of failing to maintain the duty of candour.			
	9	A5.20 The relationship between partnership working and the provision of person-centred care.			
	10	A5.21 The principles of safeguarding, found in the Health and Social Care Act 2012.			
	11	A5.22 The signs and symptoms of different types of abuse and harm.			
	12	A5.23 Signs and symptoms of radicalisation as outlined in the Prevent strategy 2011.			
A8: Managing information and data	1	A8.4 The purpose of different types of statistical databases and software tools used to integrate, analyse and interpret data.	3		

	2	A8.8 The principles of methods of statistical analysis and interpretation that can be applied to data.			
	3	A8.9 Different formats for communicating and presenting data and how to adapt communication style where appropriate.			
3					
A6: Infection prevention and control in healthcare science settings	1	A6.2 The difference between single-use and multiple-use products and the main reasons for using single-use products.	4	4	£116.00
	2	A6.3 The scientific principles of cleaning, disinfecting, sterilisation, and decontamination.			
	3	A6.4 The principles of a range of sterilisation techniques and the effect of sterilisation on materials.			
	4	A6.6 The impact of antimicrobial resistance on infection prevention and control.			
4					
A2: The Science Sector	1	A2.5 The purpose of job descriptions, person specifications and the need for entry requirements for jobs within the healthcare science sector.	9	12	£348.00
	2	A2.6 The range and diversity of job roles within the healthcare science sector.			
	3	A2.7 The links between career pathways and progression routes within the healthcare science sector as outlined by the Institute for Apprenticeships and Technical Education Occupational Maps.			
	4	A2.8 The purpose of roles having a clear scope of practice.			
	5	A2.9 The links between registration and scope of practice in relation to activities which can only be undertaken by a registered healthcare professional.			
	6	A2.10 The difference between voluntary and statutory registration.			
	7	A2.11 The role of accreditation and certification in healthcare science sector jobs.			
	8	A2.12 The purpose of appraisals and performance reviews within the healthcare science sector.			
	9	A2.13 The impact of external factors on activities of healthcare science sector organisations.			
A4: Application of safety, health and environmental practices in the workplace	1	A4.4 The requirements of national and local/organisational regulations and policies related to first aid.	3		
	2	A4.5 The overarching responsibilities of trained first aiders.			
	3	A4.7 The functions of the Serious Hazards of Transfusion (SHOT) haemovigilance scheme.			
				Total cost	£928.00

Essential offer – Occupational Specialism – Assisting with healthcare science

PO and Session Number	Session detail	Total number of sessions
PO1 - Session 32	Infection control when collecting clinical measurements	1 x 3 hr session
PO2 - Sessions 2	Divisions of life sciences	1 x 3hr session
PO3 - Session 8	Purpose of regulations, policies and organisations, impacting specimen storage and disposal	1 x 3 hr session

Additional offer: Occupational Specialism - Assisting with healthcare science

PO	Detail	Total Cost
PO1 to PO3 (14 Modules)	<p>K1.17 How knowledge of human anatomy and physiology relates to the methods used for the collection of clinical measurement data.</p> <p>K1.18 The importance of assessing physiological measurements against specific normal expected ranges.</p> <p>K1.23 The characteristics of radiopharmaceuticals and K1.24 The methods of administering radiopharmaceuticals to patients.</p> <p>K1.46 The potential consequences of IT data breaches in a healthcare science environment and K1.47 Considerations in relation to confidentiality of consultations and medical records.</p> <p>K2.35 How communicable disease states (for example, HIV, hepatitis, MRSA) impact the specimen collection procedures.</p> <p>K2.36 How non-communicable disease states (for example, diabetes, dehydration, vascular disease) impact the specimen collection procedure.</p> <p>K2.42 What point of care testing (POCT) is and K2.43 The reasons for an increased use in POCT, and how this may impact the role of a healthcare science assistant (HCSA)</p> <p>K2.44 The advantages and disadvantages of POCT and K2.45 The principles and processes of undertaking a range of common POCT.</p> <p>K2.46 The purpose of quality management for POCT equipment and K2.47 The requirements for managing quality in POCT</p>	

	<p>K3.1 The responsibilities and duties of the job role of a healthcare science assistant (HSA) when supporting the processing and analysing of specimens.</p> <p>K3.2 The duties of an HSA who is processing and analysing a range of specimens within the following life science areas and laboratory environments.</p> <p>K3.13 The purpose of the following quality assurance (QA) processes in relation to the processing and analysing of specimens.</p> <p>K3.14 How data is accurately presented and transferred within clinical laboratory environments using a range of IT systems.</p> <p>K3.31 Infection prevention techniques for processing specimens</p>	
	14 Modules	£406

Essential offer: Occupational Specialism – Optical Care Services (under development, coming soon)

Schemes of Work	Title
Performance Outcome 1	Provide optical care and advice including prescription interpretation, screening and dispensing to contribute to patient health and wellbeing
Performance Outcome 2	Provide spectacle collection, adjustments and repair services
Performance Outcome 3	Undertake retail activities to provide walk-in customers with a range of products and optical services

T Level Technical Qualification in Digital (DBS and DSS) (603/6902/4,603/6901/2)

Essential offer: core component

Element and Session Number	Session detail (Core component)	Total number of sessions
Route Core 1		
Sessions 2-3	R1.2 Key factors that can influence the business environment R1.7 Factors that drive change and a range of methods organisations can apply in response to change.	2 x 3 hr sessions
RC3		
Sessions 15 –16	R3.8 Types of data access management across platforms within a digital environment	2 x 3 hr sessions
RC5		
Session 9-10	R5.3 The types and applications of protocols used to create networks and network referencing models.	4 x 3hr sessions
Session 14-15	R5.5 The types, services and benefits of cloud computing.	
RC7		
Session 5-7	R7.3 Types of reflection and creativity techniques and how they influence practice within the digital sector.	3 x 3 hr sessions
RC9		
Sessions 1-3	R9.1 The principles of project planning R9.3 The application of project planning techniques in a business context.	3 x 3 hr sessions
RC10		
Sessions 3-5	R10.3 The technical and non-technical threats that may cause damage to an organisation: R10.4 The technical and non-technical vulnerabilities that exist within an organisation R10.6 Risk mitigation controls to prevent threats to digital systems.	3 x 3 hr sessions
RC11		
Sessions 4-5	R11.2 The Process of applying root cause analysis to problems.	2 x 3 hr session
RC12		
Sessions 1-3	R12.1 The application of digital tools and methods in a business context	3 x 3 hr session
DSS only		
Pathway Core 1		
Session 1	P1.1 The range of responsibilities, job roles and skills required of professionals in digital infrastructure.	1 x 3 hr session
Pathway Core 2		
Sessions 1-2	P3.2 The purpose and application of organisational frameworks for troubleshooting and problem management P3.4 The principles of incident management (for example ITIL® (Information Technology Infrastructure Library)) models in the context of digital support services.	2 x 3 hr sessions

Additional offer: core component

Bundle		Module detail	Number of modules	Bundle module total	Cost per bundle
1					
Route Core Element 10: Security	1	R10.7 The process and protocols of internet security assurance.	1	3	£87.00
Route Core Element 11: Testing	1	R11.1 The purpose of testing digital components.	2		
	2	R11.3 Testing methods and their application in the digital sector.			
2					
Pathway core element 1: Careers within the DSS sector	1	P1.2 The range of responsibilities, job roles and skills required of professionals in network cabling.	3	4	£116.00
	2	P1.3 The range of responsibilities, job roles and skills required of professionals in digital support.			
	3	P1.4 Integrated digital communications responsibilities required in digital support services			
Pathway core element 3: Fault analysis and problem resolution	1	P3.3 Root cause analysis approaches and their applications within problem management.	1		
3					
Route Core Element 1: Business Context	1	R1.4 The influence and impact of digitalisation within a business context and market environment.	7	13	£377.00
	2	R1.5 The role of technical change management in digital operational integrity.			
	3	R1.6 The components of technical change management.			
	4	R1.8 The steps organisations take to respond to change:			
	5	R1.9 The measurable value of digital service to customers and end users.			
	6	R1.10 The considerations and value of meeting customer and end user needs within a business context.			
	7	R1.13 Types of hacker and the implications of hacking and non-compliance with a code of conduct.			
Route Core Element 2: Culture	1	R2.1 How the increasing reliance on digital technology can cause ethical and moral impacts on business and society.	2		
	2	R2.2 The impact of unsafe or inappropriate use of digital technology and mitigation techniques to reduce impact.			
Route Core Element 8: Legislation	1	R8.1 Legislation and regulation requirements applied across sectors in a digital context.	4		

	2	R8.2 The role of criminal law, industry standards and professional codes of conduct in a digital context.			
	3	R8.3 Where to access industry standards and professional codes of conduct in a digital context.			
	4	R8.4 The importance of keeping up to date with UK and international legislation and regulations and potential consequences to businesses across sectors of being non-compliant.			
4					
Route Core Element 3: Data	1	R3.1 The fundamental characteristics of data.	6	10	£290.00
	2	R3.2 The fundamental functions of information systems and the application of data.			
	3	R3.3 The concepts and tools of data modelling.			
	4	R3.4 The concepts involved in data entry and maintenance			
	5	R3.5 Characteristics of data formats and importance for analysis			
	6	R3.6 Methods of presenting and visualizing data and their suitability for application.			
Route Core Element 4: Digital Analysis	1	R4.1 The characteristics and applications of algorithms in digital analysis	2		
	2	R4.2 The process of computational thinking and tools applied in problem solving and algorithm design.			
Route Core Element 5: Digital Environments	1	R5.4 The components and benefits of virtual computing systems.	2		
	2	R5.6 The methods and benefits of creating a resilient digital environment.			
				Total cost	£870.00

Essential offer - Occupational Specialism – DBS- Data Technician

PO and Session Number	Session detail (Core component)	Total number of sessions
PO1 - Session 7	Data lifecycle and quality	1 x 3 hr session
PO2 - Session 1	Data technologies and operations.	1 x 3hr session
PO3 - Session 1	Tools and techniques for data analysis .	1 x 3 hr session
PO4 - Session 1	Communication and visualisation techniques.	1 x 3 hr session
PO5 - Session 1	The legal and regulatory requirements that apply to data analysis	1 x 3 hr session
PO6 - Session 1	The factors of reliability, validity and bias that can be applied to legitimise sources of knowledge.	1x 3 hr session

Essential offer - Occupational Specialism- DSS – Digital Infrastructure

PO and Session Number	Session detail	Total number of sessions
PO1 - Session 3	Disaster Recovery Plans	1 x 3 hr session
PO2 - Session 8	Principles of DevOps and solution architecture	1 x 3hr session
PO3 - Session 1	Sources of knowledge and factors effecting reliability and validity.	1 x 3 hr session

Essential offer - Occupational Specialism – DSS- Digital Support

PO and Session Number	Session detail (Core component)	Total number of sessions
PO1 – Session 3	Disaster Recovery Plans	1 x 3 hr session
PO2 – Session 4	Operating Systems and applications	1 x 3hr session
PO3 – Session 1	Sources of knowledge and factors effecting reliability and validity.	1 x 3 hr session

Essential offer - Occupational Specialism – DSS- Network Cabling

PO and Session Number	Session detail (Core component)	Total number of sessions
PO1 – Session 3	Disaster Recovery Plans	1 x 3 hr session
PO2 – Session 4	Copper and fibre media types	1 x 3hr session
PO3 – Session 1	Sources of knowledge and factors effecting reliability and validity.	1 x 3 hr session

Additional offer: Occupational Specialisms - Digital Data Technician (DBS) (under development, coming soon)

PO	Detail	Total Cost
PO1 to PO6 (10 Modules)	K1.6 Methods of transferring data from one computer storage system to another K1.9 Types of data quality issues, the importance of addressing data quality issues and the process of cleansing K2.3 The purpose of logical queries and types of data query-based tools for blending data K2.4 The techniques of joining and blending data K3.4 The importance and process of data preparation, modelling and testing K3.5 Types of statistical methods and their application to identify trends and patterns in data K4.3 The application of digital marketing metrics to inform business decision making K5.4 The principles of risk management applied by a business when handling data K5.7 The means of attack posed on a business by different threat actors K5.9 The potential impacts of cyber attacks on organisations and individuals	
	10 Modules	£290

Additional offer: Occupational Specialisms - Digital Support (DSS) (under development, coming soon)

PO	Detail	Total Cost
PO1 to PO3 (7 Modules)	<p>K1.18 The purpose of technical security controls as risk mitigation techniques and their applications to business risks within a digital support context</p> <p>K1.19 The purpose and types of encryption as a risk mitigation technique and their applications</p> <p>K1.24 Methods of managing and controlling access to digital systems and their application within the design of network security architecture</p> <p>K1.25 Physical and virtual methods of managing and securing network traffic and their application within the design of network security architecture</p> <p>K2.2 The applications of agile methodologies and work practices in support of continuous innovation and development in a digital environment</p> <p>K2.4 The application of service functions in creating a domain within a networked environment</p> <p>K2.11 The types of deployment methods and the advantages and disadvantages of their application</p>	
	7 Modules	£203

Additional offer: Occupational Specialisms - Digital Infrastructure (DSS) (under development, coming soon)

PO	Detail	Total Cost
PO1 to PO3 (7 Modules)	<p>K1.19 The purpose of technical security controls as risk mitigation techniques and their applications to business risks within a digital infrastructure context</p> <p>K1.20 The purpose and types of encryption as a risk mitigation technique and their applications</p> <p>K1.25 Methods of managing and controlling access to digital systems and their application within the design of network security architecture</p> <p>K1.26 Physical and virtual methods of managing and securing network traffic and their application within the design of network security architecture</p> <p>K2.1 The principles of network and infrastructure design</p> <p>K2.2 The principles of the transmission of digital information over copper cable, fibre cable and wireless networks and systems</p> <p>K2.3 The elements of infrastructure and associated technologies</p>	
	7 Modules	£203

Document information

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Change History Record

Version	Description of change	Approval	Date of Issue
V1.0	First publication		April 2022
V2.0	Update OS resource release for Health, Healthcare Science, Science and Digital		July 2022
V2.1	Update OS resource release availability		September 2022