

SCS1546.176

Further Competition on behalf of Health Education
England and London / South East NHS Trusts

ST0220 Healthcare Science Associate (Level 4)

ST0413 Healthcare Science Practitioner (Level 6
Degree)

Under Dynamic Purchasing System C1546



Commercial Environment

Salisbury NHS FT's Commercial Services team are responsible for a number of the Trust's outward facing businesses, and provide procurement and commercial expertise to both the Trust and a number of collaborative organisations across the NHS. One of the original Carter Programme trusts, SFT are also national demonstrator site for Scan4Safety / GS1 implementation, and have experience in commercialising areas of the Trust's services to a wider market, as well as bringing innovations to market for the benefit of the NHS.

Salisbury NHS Foundation Trust are therefore a Contracting Authority within the meaning of the Public Contract Regulations 2015, and are able to make this DPS available to other public organisations listed in the relevant section of this document. Salisbury Commercial Services is a trading name of Salisbury NHS Foundation Trust for the delivery of this DPS and associated services.

This Requirement

Under Salisbury's existing Dynamic Purchasing System for Apprenticeship Training Provision, Salisbury are acting for the NHS and other public sector employers, principally within the London and South East Region* in conducting a further competition for the requirements listed below :

Please note – Providers may bid for either, or both, Lots. Providers do not need to be able to provide both courses in order to bid.

Further Competition Requirement Details – Lot One	
Course Title	HEALTHCARE SCIENCE ASSOCIATE
Accrediting Body	
Required Start Date	September 2019 onwards
Required Location(s) (Towns not site names)	London and South East – See employer details
Number of Students	Procuring Trusts do not have confirmed numbers at this stage. Therefore we are seeking minimum cohort numbers from providers, who are able to work in a flexible and responsive manner to work with Trusts to develop this Apprenticeship delivery across London and the South East.
Standards / Framework Link	https://www.instituteforapprenticeships.org/apprenticeship-standards/healthcare-science-associate/
Contract Period	Please note that only the placing of a student or cohort constitutes a contractual obligation. Trusts may award to multiple providers according to business need. Each subsequent placement is subject to previous performance. The validity period of this Procurement is two years (to July 2021) but Trusts reserve the right to reprocure at any time should the market or needs change.

Requirement Description – Lot One – Healthcare Science Associate

The supplier is required to provide bespoke apprenticeship programmes to the following Healthcare Science (HCS) departments using the above-mentioned Apprenticeship Standard.

- Audiology
- Bioinformatics
- Cardiac Physiology
- Clinical Engineering
- Decontamination / Sterile Services
- Gastrointestinal physiology
- Life / Laboratory Sciences
- Nuclear Medicine
- Ophthalmology
- Radiotherapy Engineering
- Reproductive Science
- Rehabilitation Engineering
- Respiratory Physiology
- Medical Equipment Management in clinical areas like Operating theatres, A&E and High Dependency units.
- Urodynamics and urological measurements
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A set of guided units (for most of the specialisms), available in the HCS Associate diploma, are attached in the Annex A. Training providers are required to offer reasonable adjustments in selecting units to cater individual department needs. Where no guided units are provided, training provider is required to mention list of units under each offered specialism.

Employer Details

NHS Trust Name	Address
Barts Health NHS Trust	31-43 Ashfield Street, London E1 2AH Department of Neurophysiology 2nd Floor The Royal London Hospital, Whitechapel London E1 1BB
Guy's & St Thomas' NHS Foundation Trust	Education, Training & Development Guy's & St.Thomas' NHS Foundation Trust 2nd Floor, Education Centre, 75 York Road, London. SE1 7NY
UCLH NHS FT	Staff Development, Room B, Ground Floor East, 250 Euston Road, London NW1 2PG
King's College Hospital NHS FT	Learning & Organisational Development Dpt. Kings College Hospital NHS Foundation Trust 129-131 Coldharbour Lane KCH Business Park Unit 4, 1st Floor London SE5 9NY
GOSH	Great Ormond Street Hospital for Children NHS Foundation Trust Level 4, Russell Square House 10-12 Russell Square, London WC1B 5EE

Barking, Havering and Redbridge University Hospitals NHS Trust	Education, Training, Learning & Development Queen's Hospital Rom Valley Way Romford Essex RM7 0AG
Surrey and Sussex Healthcare NHS Trust	Education, Learning & Organisation Development Team Trust HQ, East Surrey Hospital, Redhill, RH1 5RH
Royal Free London NHS Foundation Trust	Royal Free Hospital, Pond Street, London NW3 2QG

Please note that this list is not exhaustive, and other employer organisations are able to join the outcome of this Procurement during it's lifetime.

Further Competition Requirement Details – Lot Two	
Course Title	HEALTHCARE SCIENCE PRACTITIONER (DEGREE)
Accrediting Body	
Required Start Date	September 2019 onwards
Required Location(s) (Towns not site names)	London and South East – See employer details
Number of Students	Procuring Trusts do not have confirmed numbers at this stage. Therefore we are seeking minimum cohort numbers from providers, who are able to work in a flexible and responsive manner to work with Trusts to develop this Apprenticeship delivery across London and the South East.
Standards / Framework Link	https://www.instituteforapprenticeships.org/apprenticeship-standards/healthcare-science-practitioner-degree/
Contract Period	Please note that only the placing of a student or cohort constitutes a contractual obligation. Trusts may award to multiple providers according to business need. Each subsequent placement is subject to previous performance. The validity period of this Procurement is two years (to July 2021) but Trusts reserve the right to reprocure at any time should the market or needs change.

Requirement Description – Lot Two – Healthcare Science Practitioner

The supplier is required to provide apprenticeship programmes to the following Healthcare Science (HCS) departments using the above-mentioned Apprenticeship Standard. It is understandable that a single HEI may not offer all the specialisms. So the bids need clear identification of programme(s) on offer.

Life Sciences

Anatomical Pathology Technology

Life Sciences

Blood Sciences

Cellular Sciences

Genetic Sciences

Infection Sciences

Decontamination Sciences

Physical Sciences

Clinical Engineering

radiation engineering

rehabilitation engineering

medical engineering

renal technology

Clinical Photography

Medical Physics Technology

Nuclear Medicine

Radiation Physics

Radiotherapy Physics

Physiological Sciences

Cardiovascular, Respiratory and Sleep Sciences

Neurosensory Sciences

Audiology

The standard curriculum provided by the National School of Healthcare Science for each specialism is expected to be delivered and is available here:

<http://www.nshcs.hee.nhs.uk/current-ntp/practitioner-training-programme/ntp-curricula>

Training providers are required to offer reasonable adjustments in selecting units to cater individual department needs.

Employer Details

NHS Trust Name	Address
Barts Health NHS Trust	31-43 Ashfield Street, London E1 2AH Department of Neurophysiology 2nd Floor The Royal London Hospital, Whitechapel London E1 1BB
Guy's & St Thomas' NHS Foundation Trust	Education, Training & Development Guy's & St.Thomas' NHS Foundation Trust 2nd Floor, Education Centre, 75 York Road, London. SE1 7NY

UCLH NHS FT	Staff Development, Room B, Ground Floor East, 250 Euston Road, London NW1 2PG
King's College Hospital NHS FT	Learning & Organisational Development Dpt. Kings College Hospital NHS Foundation Trust 129-131 Coldharbour Lane KCH Business Park Unit 4, 1st Floor London SE5 9NY
GOSH	Great Ormond Street Hospital for Children NHS Foundation Trust Level 4, Russell Square House 10-12 Russell Square, London WC1B 5EE
Barking, Havering and Redbridge University Hospitals NHS Trust	Education, Training, Learning & Development Queen's Hospital Rom Valley Way Romford Essex RM7 0AG
Surrey and Sussex Healthcare NHS Trust	Education, Learning & Organisation Development Team Trust HQ, East Surrey Hospital, Redhill, RH1 5RH
Royal Free London NHS Foundation Trust	Royal Free Hospital, Pond Street, London NW3 2QG
Please note that this list is not exhaustive, and other employer organisations are able to join the outcome of this Procurement during it's lifetime.	

Please note the following conditions apply to this Competition :

1. Contracting Authority – The Contracting Authority will be the organisation(s) listed in the Requirements summary above, depending on the employing Trust for the Learner.
2. Responses and Questions – All responses, bids and questions must ONLY be submitted via the Bravo Procurement Portal operated by Salisbury NHSFT.
3. Terms & Conditions – The successful bidder(s) will be awarded contracts under standard NHS Terms & Conditions (copy available on Bravo). Bidders' own terms or conditions will not be accepted by the Contracting Authority.

4. Award of Business – All offers on this Procurement are made in good faith and reasonable expectation, however the Contracting Authority retains the right to change indicated student numbers. The Contracting Authority retains the right to make a reduced, or no, award following the outcome of the Competition.
5. Payment for Apprenticeship Training is from the Apprenticeship Digital Account to the Provider. Salisbury NHSFT shall not be liable for any financial sums or values under any circumstances, and the Contracting Authority shall only be liable for additional student fees if agreed and included in the Commercial Schedule of the final contract.
6. Eligibility – Only Suppliers registered and approved on Salisbury NHSFT's Dynamic Purchasing System (OJEU Reference 2017/S 045-083446) shall be eligible to compete in this Competition. Suppliers may apply to join that DPS during this competition, but no time extensions shall be granted to do so.
7. Supplier Fee – There is no fee to join, or participate in further Competitions under the DPS. By submitting a bid, suppliers agree to pay Salisbury NHSFT the sum of 1% (one percent) of the value of all business they are awarded following a Competition, excluding VAT. Please note this fee CANNOT be included in training course costs, and CANNOT be deducted from the training value paid from the student Digital Account. The full value of training given in the supplier's bid MUST be the value they deliver to the student. Supplier fees will be invoiced quarterly by Salisbury NHSFT following information provided by the Contracting Authority.
8. All bid responses and required information must be provided by the Close Date indicated on the Bravo portal.

Timetable

The current timetable is as follows :

Further Competition available on Bravo	Thursday 28 th March 2019
Further Competition – last date for questions	Tuesday 16 th April 2019
Further Competition closes for responses	Friday 26th April 2019 at 17:00
Shortlisted Providers Notified	17 th May 2019
Clarification Presentations / Meetings	Level 6 only – Tuesday 28 th May 2019
Please hold in relevant diaries	Level 4 only – Wednesday 29 th May 2019
Successful provider(s) notified	Friday 31 st May 2019

Note – Shortlisted providers will be invited to a Clarification Meeting to be on the dates shown above. This meeting is not separately scored, but is to clarify answers already given to the Quality & Delivery response in order for Trusts to confirm their understanding.

DPS Scope

The Contracting Authority expressly reserves the right (i) not to award any contract as a result of the procurement process commenced by publication of this notice; and (ii) to make whatever changes it saw fit to the content and structure of the tendering competition; and in no circumstances will the Contracting Authority be liable for any costs incurred by the candidates.

The awarding of a place on the Dynamic Purchasing System does not mean that there is any guarantee of subsequent contracts being awarded. Any expenditure, work or effort undertaken prior to contract award is accordingly a matter solely for the commercial judgement of potential suppliers. Any orders placed under this DPS will form a separate contract under the scope of this Framework between the supplier and the specific requesting other contracting body. The Contracting Authority and other contracting bodies utilising the DPS shall only use electronic portals during the life of the

agreement.

Any values that have been provided are only an estimate. We cannot guarantee to suppliers any business through this framework agreement.

The following Contracting Authorities are entitled to place Orders:

Salisbury NHS Foundation Trust and all bodies listed below :

Central Government Departments, Local Government and Public Corporations that can be accessed at the Public Sector Classification Guide:

<https://www.ons.gov.uk/economy/nationalaccounts/uksectoraccounts/datasets/publicsectorclassificationguide>

Please note Central Government departments may be subject to Government Digital Service approval before using the DPS Agreement.

Local Authorities (England and Wales)

<http://www.local.gov.uk/digital-councils/connect/a-z-councils-online>
www.ubico.co.uk

NDPBs

<https://www.gov.uk/government/organisations>

National Parks Authorities

<http://www.nationalparks.gov.uk/>

Educational Establishments in England and Wales, maintained by the Department for Children, Schools and Families including Schools, Universities and Colleges but not Independent Schools

<http://www.education.gov.uk/edubase/home.xhtml>

Police Forces in the United Kingdom

<https://www.police.uk/contact/force-websites/>

Police Forces and Special Police Forces in the United Kingdom, and/or Police and Crime Commissioners (as defined by the Police Reform and Social Responsibility Act 2011) and/or the Police Authorities (as defined in the Police Act 1964, Police Act 1996, Serious Organised Crime and Police Act 2005, Police and Justice Act 2006, Police, Public Order and Criminal Justice (Scotland) Act 2006), and other relevant legislation for the constituent parts of the United Kingdom, for their respective rights and interests

Fire and Rescue Services in the United Kingdom

<http://www.fireservice.co.uk/information/ukfrs>

<http://www.nifrs.org/areas-districts/>

<http://www.firescotland.gov.uk/your-area.aspx>

NHS Bodies England

<http://www.nhs.uk/ServiceDirectories/Pages/AcuteTrustListing.aspx>

<http://www.nhs.uk/ServiceDirectories/Pages/CCGListing.aspx>

<http://www.nhs.uk/ServiceDirectories/Pages/MentalHealthTrustListing.aspx>

<http://www.nhs.uk/ServiceDirectories/Pages/CareTrustListing.aspx>

<http://www.nhs.uk/ServiceDirectories/Pages/AreaTeamListing.aspx>

<http://www.nhs.uk/ServiceDirectories/Pages/SpecialHealthAuthorityListing.aspx>

<http://www.nhs.uk/ServiceDirectories/Pages/OtherListing.aspx>

Hospices in the UK

<https://www.hospiceuk.org/about-hospice-care/find-a-hospice?gclid=CPLU3cD7zdECFdaRGwodNeoDydw>

Registered Social Landlords (Housing Associations)

<https://www.gov.uk/government/publications/current-registered-providers-of-social-housing>

Third Sector and Charities in the United Kingdom

<http://www.charitycommission.gov.uk/find-charities/>

<http://www.oscr.org.uk/search-charity-register/>

<http://www.charitycommissionni.org.uk/charity-search/>

Citizens Advice in the United Kingdom

<http://www.citizensadvice.org.uk/index/getadvice.htm>

www.cas.org.uk

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

Scottish Public Bodies

The DPS agreement will be available for use by any Scottish Public Sector Body: the Authority; Scottish Non-Departmental Public Bodies; offices in the Scottish Administration which are not ministerial offices; cross-border public authorities within the meaning of section 88(5) of the Scotland Act 1998; the Scotland Office; the Scottish Parliamentary Corporate Body; councils constituted under section 2 of the Local Government etc. (Scotland) Act 1994 (except where they are acting in their capacity as educational authority); Scottish joint fire boards or joint fire and rescue boards; Scottish joint police boards or any successor National Police or Fire Authority; Scottish National Park authorities, bodies registered as social landlords under the Housing (Scotland) Act 2001, Scottish health boards or special health boards, Student Loans Company Limited, Northern Lighthouse Board, further or higher education institutions being fundable bodies within the meaning of section 6 of the Further and Higher Education (Scotland) Act 2005 any public body established by or under the Scotland Act 1998 or any Act of the Scottish Parliament, any association of or formed by one or more of the foregoing, bodies financed wholly or mainly by one or more of the foregoing, bodies subject to management supervision by one or more of the foregoing and bodies more than half of the board of directors or members of which, or, in the case of a group of individuals, more than half of those individuals, being appointed by one or more of the foregoing.

Scottish Government

<http://www.gov.scot>

Scottish Parliament

<http://www.scottish.parliament.uk/abouttheparliament/27110.aspx>

Scottish Local Authorities

<http://www.gov.scot/About/Government/councils>

<http://www.scotland-excel.org.uk/home/Aboutus/Ourmembers/Associate-members.aspx>

Scottish Agencies, NDPBs

<http://www.gov.scot/Topics/Government/public-bodies/about/Bodies>

Scottish NHS Bodies

<http://www.gov.scot/Topics/Health/NHS-Workforce/NHS-Boards>

<http://www.show.scot.nhs.uk/organisations/>

Scottish Further and Higher Education Bodies

<http://www.universities-scotland.ac.uk/index.php?page=members>

<http://www.collegesscotland.ac.uk/member-colleges.html>

http://www.sfc.ac.uk/aboutus/council_funded_institutions/WhoWeFundColleges.aspx

Scottish Police

<http://www.scotland.police.uk/your-community/>

Scottish Housing Associations

http://www.sfha.co.uk/component/option,com_membersdir/Itemid,149/view,membersdir/

The Scotland Office

<https://www.gov.uk/government/organisations/scotland-office>

Registered Social Landlords (Housing Associations) - Scotland

<http://directory.scottishhousingregulator.gov.uk/pages/default.aspx>

Scottish Primary Schools

<http://www.educationscotland.gov.uk/parentzone/myschool/findaschool/index.asp>

Scottish Secondary Schools

<http://www.educationscotland.gov.uk/parentzone/myschool/findaschool/index.asp>

Scottish Special Schools

<http://www.educationscotland.gov.uk/parentzone/myschool/findaschool/index.asp>

Welsh Public Bodies

National Assembly for Wales, Welsh Assembly Government and Welsh Local Authorities, and all bodies covered by:

<http://www.assembly.wales/en/Pages/Home.aspx>

<http://gov.wales>

NHS Wales

<http://www.wales.nhs.uk/ourservices/directory>

Housing Associations – Registered Social Landlords Wales

<http://gov.wales/topics/housing-and-regeneration/publications/registered-social-landlords-in-wales/?lang=en>

Universities in Wales

<http://www.uniswales.ac.uk/universities/>

Colleges in Wales

<http://www.collegeswales.ac.uk/Find-a-College>

Schools in Wales (nursery, primary, middle, secondary, special, independent schools and pupil referral units)

<http://gov.wales/statistics-and-research/address-list-of-schools/?lang=en>

Northern Ireland Public Bodies

Northern Ireland Government Departments

<http://www.northernireland.gov.uk/gov.htm>

Northern Ireland Public Sector Bodies and Local Authorities

<https://www.nidirect.gov.uk/contacts/contacts-az/general-register-office-northern-ireland>

Schools in Northern Ireland

<http://apps.education-ni.gov.uk/appinstitutes/instmain.aspx>

Universities in Northern Ireland

<https://www.nidirect.gov.uk/articles/universities-and-colleges-northern-ireland>

Health and Social care in Northern Ireland

<http://www.hscni.net/>

Northern Ireland Housing Associations

http://www.nihe.gov.uk/index/about/contact_us_home/your_nearest_office.htm

Police Service of Northern Ireland

<http://www.psnl.police.uk/index.htm>

Any corporation established, or a group of individuals appointed to act together, for the specific purpose of meeting needs in the general interest, not having an industrial or commercial character, and (i) financed wholly or mainly by another contracting authority listed above in this section of this DPS Agreement;

(ii) subject to management supervision by another contracting authority listed above in this section of this DPS Agreement; or

(iii) more than half of the board of directors or members of which, or, in the case of a group of individuals, more than half of those individuals, are appointed by another contracting authority listed above in this section of this DPS Agreement

(iv) an association of or formed by one or more of the Contracting Authorities listed above in this section of this DPS Agreement

Entities which are not public sector bodies may also use the DPS Agreement if the Authority is satisfied that:

- such entity is calling-off goods and/or services directly, solely and exclusively in order to satisfy contractual obligations to one or more public sector bodies, all of which are entitled to use the DPS Agreement on their own account;
- all goods to be called-off by it are to be used directly, solely and exclusively to provide goods and/or services at sites occupied by such public sector body(ies); and
- it will pass the benefit of the call-off contract to such public sector body(ies) directly, in full and on a purely “pass-through” basis. Accordingly there must be no mark-up, management fee, service charge or any similar cost solely in relation to the supply of goods and/or services imposed on the relevant public sector body(ies), who must be able to benefit from the terms of the DPS Agreement in a like manner and to the same extent as if using the DPS Agreement on its/their own account.

Any ‘bodies governed by public law’ which under the Public Contracts Regulations 2015 means bodies that have all of the following characteristics

- (a) they are established for the specific purpose of meeting needs in the general interest, not having an industrial or commercial character;
- (b) they have legal personality; and
- (c) they have any of the following characteristics:—
 - (i) they are financed, for the most part, by the State, regional or local authorities, or by other bodies governed by public law;
 - (ii) they are subject to management supervision by those authorities or bodies; or
 - (iii) they have an administrative, managerial or supervisory board, more than half of whose members are appointed by the State, regional or local authorities, or by other bodies governed by public law.

For the avoidance of doubt, any successor bodies of any of the above entities shall be entitled to place Orders and shall be deemed Participating Authorities for the purposes of this DPS Agreement.

Awards of further business can only be made following a mini-competition managed through the DPS. Terms and Conditions of that contract will be agreed locally with an awarding authority operating within the DPS via mini competition.

This DPS is valid for four years, ending 12:00 on 01 March 2021. Employers may enter into contracts which extend beyond the lifetime of the DPS.

Terms & Conditions

The individual Employer organisations will be responsible for issuing their standard Terms & Conditions as part of the mini competition documentation.

Access Charges

There is no charge for Providers to register for inclusion on the DPS, to access information, or to bid for business via the DPS.

Each Provider, on a successful award of a contract, will be invoiced a DPS delivery charge by Salisbury Commercial Services. This will be based on a percentage of contract value, and will be clearly advertised with each opportunity.

For Suppliers – How to Participate

Suppliers can request to join (or withdraw from) a DPS at any time during the advertised lifetime of the DPS.

All DPS activity is carried out electronically, including further competition and messaging.

Salisbury NHSFT uses the Bravo NHS Portal for all procurement requirements, including DPS.

Suppliers wishing to join this DPS should register on the Portal https://nhs.bravosolution.co.uk/nhs_collaborative/web/login.html and locate relevant project reference. Suppliers will then be asked to complete the online PQQ and submit. Salisbury NHSFT will

then evaluate the PQQ and advise within 10 working days after an initial period of 30 days (or advise the supplier where this will be extended).

Suppliers successfully placed on the DPS will then be advised of further competitions via the Bravo portal.

It is therefore **essential** that suppliers maintain their contact details within their Bravo profile at all times, as Salisbury Commercial Services will not be responsible for suppliers not receiving competition calls due to incorrect or outdated profile information.

Further Information

For further information, email Simon Dennis at simon.dennis@nhs.net or visit the Bravo procurement portal (https://nhs.bravosolution.co.uk/nhs_collaborative/web/login.html)

Annex A – Selected Units

Audiology

Unit number	Selected units	Credit	Guided learning
11	Scientific Basis of Healthcare Science: Clinical Science	25	200
65	Scientific Basis of Neurosensory Sciences: Applied Anatomy, Physiology and Pathophysiology: The Ear	5	40
67	Hearing Aid repair and Maintenance	15	120
18	The Science behind the Cure	20	160
66	Adult hearing Screening and Assessment	25	200

Cardiac Physiology

Unit number	Optional units	Credit	Guided learning
11	Scientific Basis of Healthcare Science: Clinical Science	25	200
56	Assist in Cardiac Stress Testing <i>Learners taking this unit must also complete Unit 53: Recognising ECG Abnormalities in Adults</i>	6	48
53	Recognising ECG Abnormalities in Adults **	10	80

58	Recognising ECG Abnormalities in Children **	10	80
55	Ambulatory Blood Pressure Monitoring	15	120
54	Ambulatory ECG Monitoring	20	160

Clinical Engineering

Unit number	Selected units	Credit	Guided learning
111	Diagnosing and Rectifying Equipment Faults	4	32
110	Planned Preventive Maintenance	4	32
107	Clinical Engineering Workshop Skills	4	32
109	Acceptance Testing of New Medical Equipment	6	48
108	The Medical Equipment Lifecycle	6	48
112	Decommissioning and Disposal of Medical Equipment	6	48
15	Scientific Basis of Healthcare Science: Mathematics, Statistics and Physical Sciences	10	80
126	Technical Support for Computerised Medical Devices	10	80
113	Medical Engineering in Practice	15	120

Decontamination / Sterile Services

Unit number	Optional units	Credit	Guided learning
11	Scientific Basis of Healthcare Science: Clinical Science	25	200
39	Principles and Practice of Decontamination Science	5	26
45	Testing, Maintenance and Breakdown Management of Decontamination Equipment	5	40
40	Preparation of Medical Devices for the Cleaning and Disinfection Process	5	26
41	Cleaning and Disinfection of Medical Devices: Manual Processes *	5	30
42	Cleaning and Disinfection of Medical Devices: Automated Processes*	5	40
44	Terminal Processing including Sterilisation and High Level Disinfection	5	36
46	Principles and Practice of Flexible Endoscope Decontamination *	6	50
43	Inspection, Assembly, Packaging of Medical Devices in a Controlled Environment	10	76

Life Sciences / Pathology

Unit number	Optional units	Credit	Guided learning
11	Scientific Basis of Healthcare Science: Clinical Science	25	200
19	General Laboratory Practice	11	88
29	Clinical Biochemistry in Practice	30	240
30	Haematology in Practice	30	240
31	Clinical Immunology in Practice	30	240
32	Histocompatibility and Immunogenetics in Practice	30	240
33	Transfusion Science – Blood Transfusion in Practice	30	240
34	Transfusion Science – Stem Cell and Tissue Transplantation	30	240
35	Histology in Practice	30	240
36	Cytology in Practice	30	240
37	Microbiology in Practice	30	240
38	Virology in Practice	30	240
	<i>Choose any ONE module from the above list (Units 29 to 38) Learners taking this unit must also take Unit 19</i>		

Radiotherapy Engineering

Unit number	Optional units	Credit	Guided learning
111	Diagnosing and Rectifying Equipment Faults	4	32
110	Planned Preventive Maintenance	4	32
107	Clinical Engineering Workshop Skills	4	32
108	The Medical Equipment Lifecycle	6	48
15	Scientific Basis of Healthcare Science: Mathematics, Statistics and Physical Sciences	10	80
116	Ionising Radiation Engineering in Practice	15	120
118	Radiotherapy Physics in Practice	20	160

Rehabilitation Engineering

Unit number	Optional units	Credit	Guided learning
111	Diagnosing and Rectifying Equipment Faults	4	32
110	Planned Preventive Maintenance	4	32
15	Scientific Basis of Healthcare Science: Mathematics, Statistics and Physical Sciences	10	80
104	Scientific Basis of Engineering: Electrical and Basic Electronics	15	120

105	Scientific Basis of Engineering: Basic Mechanics	15	120
114	Rehabilitation Engineering in Practice	15	120

Respiratory

Unit number	Optional units	Credit	Guided learning
11	Scientific Basis of Healthcare Science: Clinical Science	25	200
50	Scientific Basis of Cardiovascular Respiratory and Sleep Science: Anatomy, Histology and Physiology of the Respiratory System	15	120
51	Scientific Basis of Cardiovascular Respiratory and Sleep Science: Scientific Basis of Respiratory Disorders of Sleep	10	80
59	Spirometry, Static Lung Volumes and Bronchodilator Response in Adults	15	120
60	Measurement of Single Breath Gas Transfer	15	120
61	Performing Overnight Oximetry	10	80
62	Spirometry, Static Lung Volumes and Bronchodilator Response in Children *	15	120

Gastrointestinal

Unit number	Selected units	Credit	Guided learning
85	Assist in Post Sacral Nerve Stimulation Implantation Follow-up Clinics <i>Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology</i>	6	52
86	Preparing Equipment for Ambulatory 24 Hour Monitoring, including pH and Combined pH/Impedance Studies <i>Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology</i>	6	52
82	Performing a Breath Test for Carbohydrate Malabsorption <i>Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology</i>	8	64
84	24 hour Gastrointestinal Physiology Studies: Post-Recording Management Studies <i>Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology</i>	10	80

83	Performing Percutaneous Tibial Nerve Stimulation (PTNS) in Patients with Faecal and Urinary Incontinence Over Active Bladder (OAB) <i>Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology</i>	12	96
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Ophthalmology

Unit number	Selected units	Credit	Guided learning
11	Scientific Basis of Healthcare Science: Clinical Science	25	200
70	Assist in the Recording of Visual Evoked Potentials	6	52
71	Assist in the Recording of Visual Electrophysiological Investigations	6	52
75	Instill Eye Medication for Purpose of Investigation or Treatment	5	40
76	Anatomy, Physiology and Pathophysiology of the Visual System	6	48
77	Imaging the Eye with Fundus Camera and Optical Coherence Tomography	6	48
78	Measure Visual Acuity	3	17
79	Visual Field Assessment	5	40
80	Measure Optical Prescriptions and Refractive Error	5	42