

Scientist Training Programme

Numbers of Required Assessments per Specialism

Applicable to:

Trainees entering the programme from 2014 onwards

The assessment strategy and learning guides outline the need for consistency between programmes and consequently each trainee should undertake a comparable number of assessments.

This document sets out for both trainees and training officers, about the number and balance between the different types of assessment.

Requirements of the Scientist Training Programme

There should be 8 assessments in the rotation phase and 20 in the specialist phase.

The intention is that assessments should be undertaken in a measured way throughout the training programme. To achieve this, a minimum of 2 assessments should be completed within each of the rotational modules, i.e. 8 across the rotation phase. Within each module this would be a CBD and either, a DOP or an OCE.

Of the 20 assessments within the specialist programme, the table outlines the number required for each of the specialist modules. Half should be CBDs and the remainder should be split as follows; 6 DOPs and 4 OCEs.

Where there are odd numbers suggested within the table the trainee should undertake a further CBD.

Multisource Source Feedback (MSF)

Trainees are required to complete two MSFs during their training. The first should be undertaken about 18 months into the training programme and the second towards the end of the training so a comparison can be made in terms of progression and ongoing development.

Competences

Trainees are required to complete all of the competences defined in each learning framework in line with the overall delivery of the relevant modules.

DIVISION	THEMES	ROTATIONS	ASSESSMENTS		SPECIALISMS	MODULES	ASSESSMENTS	
			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs
Physiological Sciences	Cardiac, Critical Care, Vascular, Respiratory & Sleep Sciences * Modules for Critical Care Science	Introduction to Cardiac Science*	1	1	Cardiac Science	Diagnostic Approaches and Current Treatment of Cardiac Disorders – Non-Invasive Diagnostics	2	2
		Introduction to Vascular Science	1	1		Diagnostic Approaches and Current Treatment of Cardiac Disorders – Invasive Diagnostics	2	2
		Introduction to Respiratory & Sleep Science*	1	1		Diagnostic Approaches and Current Treatment of Cardiac Disorders – Therapeutic Interventions	2	2
		Clinical Assessment & Investigation	1	1		Ultrasound Imaging in Cardiac Disease	4	4
		Critical Care Science *	1	1		Diagnosis and Management of Cardiac Rhythm Disorders – Arrhythmia Management and Patient Follow-Up	4	4
		Device Risk Management & Governance *	1	1		Vascular Science	Ultrasound Science, Haemodynamics and Instrumentation	4
					Extracranial Arterial (Imaging)		2	2
				Peripheral Venous (Imaging)	2		2	
				Peripheral Arterial (Screening and Microvasculature Diagnostics)	2		2	
				Respiratory & Sleep Science	Respiratory and Sleep Science 1	5	5	
					Respiratory and Sleep Science 2	5	5	

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			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs
					Critical Care Science	Respiratory and Sleep Science 2 for Critical Care	2	3
						Life Support and Emergency Resuscitation	2	3
						Monitoring and Supporting Critically Ill Patients	4	4
						Diagnostic and Therapeutic Techniques in Critical Care	1	1
	Neurosensory Science	Introduction to Audiology	1	1	Audiology	Adult Audiological and Vestibular Assessment	2	3
		Introduction to Ophthalmic & Vision Science	1	1		Adult Audiology and Rehabilitation	2	3
		Introduction to Neurophysiology	1	1		Paediatric Audiology and Habilitation	2	3
		Clinical Assessment & Investigation	1	1		Epidemiology and Public Health	2	3
					Ophthalmic & Vision Science	Patient Assessment	1	1
						Psychophysical Assessment of Vision	1	2
						Ophthalmic Imaging with Light and lasers	1	2
						Ultrasonography of Eye and Orbit	1	2
						Ocular Measurement, Refraction and Biometry	1	2
						Ocular Movement and Binocular Function	1	2
						Visual Electrophysiology	1	2

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			DOPS/ OCes	CBDs			DOPS/ OCes	CBDs				
					Neurophysiology	Electromyography and Nerve Conduction Studies and Evoked Potentials	2	3				
						Paediatric EEG	2	3				
						EEG in the Intensive Care Setting	2	3				
						Sleep and Long-term Monitoring	2	3				
	Gastrointestinal Physiology & Urodynamic Science	Introduction to Gastrointestinal Physiology	1	1	Gastrointestinal Physiology	Lower Gastrointestinal Physiology and Endoanal Ultrasound	2	3				
						Introduction to Urodynamic Science	1	1	Urodynamic Science 1	2	3	
						Clinical Assessment & Investigation			Upper Gastrointestinal Physiology	5	5	
						Introduction to Cardiac Science			Urodynamic Science	Lower Gastrointestinal Physiology and Endoanal Ultrasound	2	3
						Introduction to Respiratory & Sleep Science				Urodynamic Science 1	2	3
		Urodynamic Science 2	5	5								
Life Sciences	Blood Sciences	Clinical Biochemistry - Investigation of Major Organ Function	1	1	Clinical Biochemistry	Clinical Disorders of the Major Organs and Cancer	2	2				
		Haematology & Transfusion Science	1	1		Endocrinology and Diabetes	2	2				
		Immunity & the Principles & Practice	1	1		Nutrition	2	2				

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			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs
		of Clinical Immunology						
		Genetics & Molecular Science	1	1		Drug Investigation	2	2
						Pregnancy, Neonatology and Paediatric Clinical Biochemistry	2	2
						Haematology & Transfusion Science	2	2
						Disorders of Red and White Blood Cells	2	2
						Core Transfusion	2	2
						Haemostasis	2	2
						Haematological Malignancy	2	2
						Specialised Transfusion	2	2
						Clinical Immunology	2	2
						Immunology and Infection	2	2
						Immunodeficiency and Immunotherapy	2	2
						Hypersensitivity and Allergy	2	2
						Haematological Malignancies and Transplantation	2	2
						Autoimmunity	2	2
						Clinical Immunology with Histocompatibility & Immunogenetics	2	2
						Histocompatibility	2	2
						Immunodeficiency and Immunotherapy	2	2
						Hypersensitivity and Allergy	2	2
						Haematological Malignancies and Transplantation	2	2

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			DOPS/ OCes	CBDs			DOPS/ OCes	CBDs
						Haemopoietic Stem Cell Transplantation	2	2
	Genetics	Genetics & Molecular Science	1	1	Genetics	Infertility; Sexual Differentiation	2	2
	Choose 3 from	Clinical Biochemistry - Investigation of Major Organ Function	1	1		Genetics of Learning Disabilities	2	2
		Haematology & Transfusion Science	1	1		Genetics of Neuromuscular Disorders	2	2
		Immunity and the Principles and Practice of Clinical Immunology	1	1		Population Screening	2	2
		Introduction to Principles and Practice of Histopathology	1	1		Cancer	2	2
		Principles and Practice of Cervical Cytology and	1	1				

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			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs
		Diagnostic Cytopathology						
		Principles and Practice of Reproductive Science and Diagnostic Semen Analysis	1	1				
	Infection Sciences	Introduction to Clinical Bacteriology	1	1	Clinical Microbiology	Infectious Disease in the Community and Hospital Setting	2	2
		Introduction to Clinical Virology	1	1		Antimicrobial Therapy	2	2
		Molecular Pathology in Infection Science	1	1		High-Risk Groups	2	2
		Epidemiology & Health Protection	1	1		Mycology and Parasitology	2	2
						Public Health Worldwide – Implications for Clinical Microbiology	2	2
	Cellular Sciences	Introduction to Principles and Practice of Histopathology	1	1	Histopathology	Pathological Basis of Disease	2	2
		Principles and Practice of Cervical Cytology and Diagnostic Cytopathology	1	1		Systematic Investigation of Pathological Specimens	2	2

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			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs	
		Principles and Practice of Reproductive Science and Diagnostic Semen Analysis	1	1		Major Organ Histopathology excluding Cancer	2	2	
		Genetics & Molecular Science	1	1		Cancer	2	2	
						Specialised Histopathology	2	2	
					Cytopathology	Pathological Basis of Disease	2	2	
						Systematic Investigation of Pathological Specimens	2	2	
						Major Organ Histopathology including Cancer	2	2	
						Gynaecological Cytopathology	2	2	
						Non-Gynaecological Cytopathology	2	2	
					Reproductive Science	Infertility, Treatment and Role of Regulation	2	2	
						Gametes and Fertilisation	2	2	
						Culture of Gametes and Embryos	2	2	
						Micromanipulation and Cryopreservation	2	2	
						Embryology	2	2	
	Physical Sciences & Biomedical Engineering	Medical Physics	Radiotherapy Physics	1	1	Radiotherapy Physics	Dosimetry and Treatment Equipment	2	3
			Radiation Safety Physics	1	1		Treatment Planning	2	3

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			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs
		Imaging with Non-Ionising Radiation	1	1		Brachytherapy	2	3
		Imaging with Ionising Radiation	1	1		Computing Related to Radiotherapy	2	3
					Radiation Safety Physics	Risk Assessment and New Facilities	1	2
						Diagnostic Radiology: Equipment Performance	1	2
						Patient Dose Assessment and Optimisation	1	2
						Laser and Ultraviolet Equipment	1	1
						Non-Ionising Sources: Radiation Risks, Safety and Bioeffects	1	1
						Assess, Audit and Interpret Radiation Dose Monitoring	1	2
						Radiation Governance Framework	1	1
						Information and Communication Technology	1	1
				Imaging with Non-Ionising Radiation	Ultrasound Imaging	1	2	
						Magnetic Resonance Imaging	1	2
						Exposure Measurement	1	2
						Risk, Safety and Bioeffects	1	2
						Diagnostic Equipment Performance	1	2
						Emerging Technology	1	2

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			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs
						Information and Communication Technology	1	1
					Imaging with Ionising Radiation	Radionuclide Imaging	1	2
						Non-Imaging Radionuclide Tests	1	1
						Radionuclide Therapy	1	1
						Radiopharmacy	1	1
						Radiation Protection	1	2
						Diagnostic Radiology: Equipment Performance	1	2
						Diagnostic Radiology: Image Optimisation and Patient Dose Measurement	1	2
						Information and Communication Technology	1	1
		Quality Assurance and Quality Control 1	1	1	Clinical Pharmaceutical Science	Production 2	2	3
		Aseptic Services 1	1	1		Quality Assurance and Quality Control 2	2	3
		Production 1	1	1		Radiopharmacy 2	2	3
		Radiopharmacy 1	1	1		Aseptic Services 2	2	3
	Clinical Engineering	Rehabilitation Engineering	1	1	Rehabilitation Engineering	Assistive Technology	3	4
		Clinical Measurement & ICT	1	1		Clinical Gait Analysis	3	4
		Design & Development	1	1		Medical Engineering Design	3	3
		Device Risk Management &	1	1	Clinical Measurement &	The Project Life Cycle	3	4

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			DOPS/ OCEs	CBDs			DOPS/ OCEs	CBDs
		Governance			Development			
						Advanced Information and Communication Technology Skills	3	3
						Clinical Measurement	3	4
					Medical Device Risk Management & Governance	Medical Device Management Strategy	1	2
						Optimisation of Medical Device Effectiveness and Efficiency	1	2
						Equipment Acquisition, Acceptance Testing and Installation	1	1
						Planned Maintenance and Repairs to Devices	1	1
						Patient Safety	1	2
						Medical Device Information System	1	1
						Expertise in Medical Device Risk Management	1	2
					Professional Advisory Services	1	1	
				Introduction to Reconstructive Sciences	1	1	Reconstructive Science	Medical Devices for Maxillofacial Trauma and Craniofacial Deformities
		Clinical Assessment, Investigation and Planning	1	1	Prosthetic Rehabilitation for Head and Neck Cancer and Soft Tissue Injuries	5		5

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			DOPS/ OCes	CBDs			DOPS/ OCes	CBDs
		Biomedical Materials and Engineering	1	1				
		Introduction to Biomedical Prosthetics and Rehabilitation	1	1				
Informatics	Clinical Bioinformatics	Introduction to Clinical Bioinformatics and Genetics	1	1	Genomics	Programming	2	2
		Computing for Clinical Scientists	1	1		Advanced Clinical Bioinformatics	2	2
		ICT in the Clinical Environment	1	1		Whole Systems Molecular Medicine	2	2
		Introduction to Health Informatics	1	1		IT for Advanced Bioinformatics Applications	2	2
						Applied Next Generation Sequencing	2	2
						Physical Sciences	The Project Life Cycle	4
					Advanced Information and communications technology skills		3	3
					Database Management, Data Mining and Modelling		3	4
					Health Informatics	Policy, Strategy and Operational Management	2	2

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			DOPS/ OCes	CBDs			DOPS/ OCes	CBDs
						Co-Production of Health	3	3
						Systems Development and Design	2	3
						Information and Knowledge Management	3	2