

Guidance for Accreditors on the Accreditation/Reaccreditation of

Part-Time MSc/PgD/PgC Programmes

Member Organisations

British Medical Ultrasound Society

British Society of Echocardiography

Chartered Society of Physiotherapy

College of Radiographers

Institute of Physics and Engineering in Medicine

Royal College of Podiatry

Society for Vascular Technology of Great Britain and Ireland

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1. Introduction

The purpose of this new guidance document is to support lead, co- and shadow accreditors by providing clarity on what the Consortium for the Accreditation of Sonographic Education (CASE) requires when accrediting traditional part-time postgraduate ultrasound programmes /courses. It has been created in response to the changing ultrasound landscape and the subsequent proliferation of different types of ultrasound education and training.

Formed in 1993, CASE consists of seven member organisations "drawn together by a common desire to ensure that the education and training of sonographers in the United Kingdom is delivered at an appropriate level to ensure that those completing programmes or courses achieve a standard of competency to practise as professional practitioners". The primary role of the Consortium is to accredit high quality education and training programmes/courses that promote best ultrasound practice and ensure that ultrasound practitioners are safe and competent to practise, whilst considering informed views of service needs. In 2015 the Consortium agreed the following four principles that should be adhered to in respect to ultrasound practice and ultrasound education:

- 1. Reporting should **not** be separated from scanning.
- 2. Scanning is a 'dynamic' investigation in which the acquisition of suitable images and assessment of them is entirely operator-dependent at the time of the scan. Deficiencies in acquisition cannot be rectified by involving a more skilled practitioner at a later stage. Assessment and interpretation of saved images is recognised as sub-optimal practice although, as with all image interpretation, dual reporting can be helpful in increasing specificity.
- 3. The risk of patient harm and consequent litigation against any healthcare organisation providing a poor-quality service is very high and therefore the need for competence at the point of scanning is paramount.
- 4. Workforce modelling and the development of innovative training routes to meet the demand for sonography services should demonstrate increased efficiency of provision and effectiveness in delivery of diagnosis and treatment to patients".

The first CASE principle is of key importance for ultrasound examinations and has been recognised as such by the Society & College of Radiographers (SCoR) and the British Medical Ultrasound Society (BMUS) in their joint publication 'Guidelines for Professional Ultrasound Practice' in which they state the "ultrasound report should be written and issued by the operator undertaking the ultrasound examination and viewed as an integral part of the whole examination".

Historically, 'traditional' postgraduate MSc/PgD/PgC ultrasound programmes/courses across the United Kingdom (UK) have adhered to very similar models of development, design and delivery; however, whilst the current demand for flexibility and innovation in programme/course content and delivery are to be encouraged, this must not be at the expense of patient safety. All CASE accredited programmes/courses must therefore include learning outcomes that are linked explicitly to a defined scope of practice, include assessment of theoretical and practical elements that reflect best practice (rather than minimal competence) and are achievable within the programme/course structure (including placement support).

Accreditation will only be considered for programmes/courses that incorporate the assessment of ultrasound clinical competencies within its portfolio.

A number of existing documents identify a recommended minimum basic theoretical training for imaging and non-imaging specialists and it would be a reasonable starting point to assume that CASE requirements would be in line with these for ALL entry level practice; for example, the Fetal Anomaly Screening Programme Education and training - GOV.UK (www.gov.uk). However, for applications that are technically complex or where differential diagnoses and interpretive, actionable reporting are required, existing CASE learning outcomes (Level 6 or Level 7) (Appendix 1) would need to be met.

CASE will need to be assured at the time of accreditation/reaccreditation that the title evidenced on the programme/course award certificate, issued on successful completion, reflects the defined areas of clinical competency and is otherwise fit for purpose. This should be accompanied by a detailed transcript (or equivalent) identifying the modules passed and the student's marks.

If you have any questions at this stage please contact the CASE Education Officer at: case.education.officer@gmail.com

PLEASE NOTE: This guidance document should be read in conjunction with the <u>CASE</u> <u>Standards for Education</u>.

2. CASE Position Statements

Following in-depth review of CASE processes and requirements the following position statements were issued during 2021, 2022 and 2023:

2.1 Focused Obstetric Courses for 3rd Trimester Obstetrics, Saving Babies Lives Care Bundle version 2 (SBLCBv2)

CASE accreditation will only be approved for focused courses that specify a clearly defined scope of practice and that require trainees to demonstrate the same level of competency as any other health care professional (HCP) carrying out that same examination. For applications that are technically complex, or where differential diagnosis is required, existing CASE learning outcomes (level 6 / level 7) need to be met. The extent to which this can be delivered and assessed effectively within a Focused Course format is dependent on target course attendants, as well as the technical complexity of the defined area of practice.

Following review of the requirements of the Saving Babies Lives Care Bundle (SBLCBv2), we confirm that Third Trimester Obstetric Scanning will **not** be considered by CASE as appropriate for delivery by a focused course format due to the breadth and complexity of scanning undertaken in this high-risk context. A formal HEI award is required.

A stand-alone module format (such as a negotiated module) may be suitable for CPD applicants where recruitment is restricted to trainees who can evidence prior knowledge and skills consistent with CASE learning outcomes (level 6 / level 7) in science / professional issues. For example, this may include learners who already hold a formal obstetric ultrasound qualification (or who have completed previous focused training) who wish to develop additional skills in middle cerebral artery (MCA) or uterine artery (UA) Doppler.

2.2 Social Scanning

Social scanning is defined as the use of ultrasound for pregnant patients where there is no clinical justification for the scan. This may include scanning solely for fetal sexing and/or to capture souvenir images of the baby.

Issues around 'social scanning' have been raised as Programme/Course Leads are seeing an increase in applicants looking to qualify in sonography, not for diagnostic purposes but for commercial reasons (e.g. baby scans for gender-reveal parties). They have asked for clarification on CASE's position and so the following response has been issued as a formal position statement:

CASE has a responsibility to provide assurance that ultrasound trainees completing an accredited course are safe, competent and have a clear and confident understanding of their scope of practice. This is at the heart of why CASE exists. The learning outcomes that must be met by students completing a CASE accredited course reflect the level of understanding and

skill required for a first post competent practitioner, undertaking medical ultrasound examinations within an evidence-based environment. (For example, for obstetric ultrasound, these outcomes must be consistent with current national guidelines, including the NHS Fetal Anomaly Screening Programme or equivalent and Saving Babies Lives Care Bundle v2.)

Members of the public are unable to distinguish between sonographers employed in an NHS context and individuals undertaking social scans. To safeguard patients, and to be able to hold practitioners to account, it is recognised that there is urgent need for statutory regulation of ultrasound practice in the UK. Personal accreditation of an individual's ultrasound practice is not a process that falls within the remit of CASE. However, in the absence of statutory regulation, CASE has a vital role in ensuring that all trainees completing an accredited course are prepared fully for practice within an NHS context. On completion of a CASE accredited award (PgC, PgD or MSc) sonographers are able to register as a sonographer with the Register of Clinical Technologists therct.org.uk

In line with the position of our member organisations, CASE accreditation is only applicable to courses of study that prepare students for the use of ultrasound imaging for medical diagnosis and /or as an aid to medical/surgical interventions. CASE will not accredit courses (full awards or focused) that prepare trainees solely for the purpose of social scanning where there is no medical justification.

2.3 Independent Scanning Prior to Award Ratification

Students enrolled on a CASE accredited programme/course must not undertake independent scanning/decision making without supervision until the final Programme/Course award has been ratified by the University examination board. For students achieving a pass grade in all academic and clinical assessments, final marks and the overall Programme/Course award remain provisional until subject to the scrutiny of the university academic examination boards.

The position statement is as follows:

Until the final Programme award is ratified, the trainee remains a student of the university, and an appropriate level of supervision (commensurate with their ability) must continue to remain in place in line with university, CASE, BMUS and any other relevant United Kingdom (UK) professional body guidelines. The employer must be able to provide relevant indemnity cover for any individual being employed as a sonographer. Students/new sonographers are strongly advised to check that their employment contract covers this. Additional secondary professional indemnity insurance cover can be arranged, for example through their respective professional body, as long as employer primary insurance is in place.

2.4 Non-synchronised Events - CASE/Education Provider

The following statement is issued to clarify the potential impact of a non-synchronous event where a HEI validation event is held separately from a formal accreditation review meeting.

University approval/re-approval events must normally coincide with CASE accreditation/re-accreditation events. (This is particularly important for BSc, Apprenticeship and Direct Graduate Entry Postgraduate programmes/courses). Where this is not possible, the CASE event is normally scheduled first. This provides opportunity for any CASE conditions and recommendations to be addressed during the formal internal event.

Where university validation for a programme has already occurred, there may be limited opportunity for programme teams to implement CASE requirements ahead of a scheduled intake. Where substantive changes are required to meet CASE conditions, it may be necessary for the programme to run for the affected academic year without accreditation. Conditions will then need to be addressed through formal internal University processes prior to confirmation of CASE accreditation.

It is the responsibility of the programme team to ensure that, where relevant, students joining the programme are informed that the programme is **not** CASE accredited for that academic year.

2.5 Accreditation of Courses without University Affiliation

Historically, CASE have only considered accreditation of awards that are delivered by (or in affiliation with) a university that complies with the standards set by *The Quality Assurance Agency for Higher Education* (QAA) Quality Code for Higher Education. However, we recognise the limitations this sets and so have issued the following position statement:

The QAA is an independent body entrusted with monitoring and advising on standards and quality in the UK higher education sector. The power to award a degree level qualification is dependent on compliance with these standards and ensure that:

- the academic standards of courses meet the requirements of the relevant national qualifications framework;
- the value of qualifications awarded to students at the point of qualification and over time
 is in line with sector-recognised standards (this includes award of transferable academic
 credits);
- courses are well-designed, provide a high-quality academic experience for all students and enable a student's achievement to be reliably assessed;

• from admission through to completion, all students are provided with the support that they need to succeed in and benefit from higher education.

This level of student support, external scrutiny and governance would not typically be found with private course providers that sit outside of this quality framework.

The rapid emergence of point-of-care applications has resulted in some expansion of ultrasound training and education provision into non-conventional settings. Courses that are delivered outside of this standard model would not normally fall within CASE remit. CASE welcomes innovation and recognises the need for exploration of alternative training models. However, for a focused course or modular award to be consider for accreditation, CASE would require assurance of the following provisions:

- Qualification governance equivalent to that provided by HEI affiliation
- Effective student support in place (pastoral and academic)
- Robust competency assessments (academic and clinical)
- Qualification linked to a well-defined scope of practice
- All relevant CASE level 6/7 learning outcomes are met

Where these conditions can be met, CASE welcomes submission of courses outside of our normal requirement for HEI affiliation for consideration for accreditation.

2.6 Musculoskeletal Ultrasound Position Statements

2.6.1 Applicants should be aligned with an appropriate professional body and have an appropriate amount and type of pre-existing experience in a clinical musculoskeletal or ultrasound specialism.

Rationale: This proposal maintains that applicants into a PgC MSK US course must have appropriate clinical MSK or ultrasound experience, but recognises that the level/quality of experience is not directly related to time (i.e. some professionals could be clinically skilled/experienced in MSK or ultrasound practice in <12 months and others may have >12 months of experience without appropriate knowledge/skills. This is a similar argument for a student competent in US after 10 scans versus a student not yet competent in US following 100 scans). This proposal also maintains the need for students undertaking MSK US courses to be health professionals aligned with an appropriate professional body (inclusive of Allied Health Professionals (AHPs) and medical professionals). MSK is not currently an option for direct entry US courses delivered at undergraduate level.

2.6.2 As part of a CASE accredited course, students should undertake a portfolio of practice/learning and demonstrate competency in the areas that clearly align with their subsequent breadth/remit of ultrasound scanning following completion of the course.

Rationale: This proposal emphasises the need for students on MSK US courses to complete and maintain a portfolio/evidence log to:

- agree a learning contract between the student, mentor and awarding institution, about a clearly defined individual breadth/remit of MSK US practice, for use in practice when training and post qualification (where the portfolio is presented to mentors and employers);
- evidence appropriate scanning experience & learning, aligned to this full breadth/remit of practice (inclusive of documented scans (quality appraised by mentor), scan hours ± reflective practice/case reports);
- evidence the student's clinical competency to scan out in practice following completion of the course, where the portfolio must include evidence of successfully completed clinical competency assessments. These assessments must include unseen patient examinations, where student competency is assessed and signed off across the full breadth/remit of their defined US practice.
- **2.6.3** CASE advocate that the learner presents their portfolio of practice/learning and competency assessments to their employer (or regulator, as appropriate) as evidence practice.

Rationale: On discussion, we learned that it is not usually possible for Higher Education Institutions to specify different MSK anatomical areas/regions on exit awards for individual students. Therefore, this proposal highlights the need for the health professional qualified in MSK US to present to their employer: 1) evidence of their exit award and 2) their portfolio of practice, with evidence of the breadth/remit of US practice they can competently scan within. CASE recognise that this proposal requires more employer education/support about the need for MSK US professionals to produce this evidence. As a mechanism towards preceptorship, this will ensure patient/sonographer safety through appropriate referrals and scan lists. This portfolio can also be used in evidence of practice for professional bodies and regulators.

2.6.4 Student scans must be directly supervised by an appropriate mentor, who has appropriate qualifications and experience (i.e. PgC qualification and a minimum of 2*-years post qualification experience or level 2 Radiology) in MSK US, aligned with the student's breadth/remit of practice, as defined in their portfolio. (*Where there is a significant shortage of available mentors, qualified staff with a minimum of 1 year post qualification experience may act as the local mentor if at least one other member of the supervisory team meets the minimum requirement of 2 years' experience).

Rationale: This proposal is intended to define an appropriate MSK US mentor for the trainee student. This ensures that the mentor has a breadth/remit of practice aligned to that of the student, with appropriate experience, qualifications and clinical competency. This proposal also aligns to the existing CASE proposal statement related to independent scanning. In relation to this statement, please see following principles:

- Mentor supervision of independent student scans/decision making, until the final (or interim) award is ratified by the University examination board, is a cornerstone of US practice (applicable to all remits of US and not exclusive to MSK);
- These scans must include scanning of a range of MSK pathologies aligned to the student's breadth/scope of practice, as defined/agreed in the learning contract;
- Whilst students may undertake scans with healthy volunteers in simulation-based training (fundamental to learning healthy sono-anatomy), these should not be included in the scan log/numbers of the portfolio. The portfolio should be reflective of patient cases only.

2.6.5 Aligning with the subsequent scope of musculoskeletal ultrasound practice, appropriate learning and formal assessment(s) (usually at level 7 or equivalent Masters level) must be successfully completed for professional issues, science, physics and technology.

Rationale: This proposal maintains the need for students to successfully complete a physics module, with learning and assessment at an appropriate level. The level is not named here, as could differ between levels 6 or 7 (or equivalent levels outside of England) depending on whether the MSK course is at a focused or postgraduate level (direct entry at undergraduate level not yet possible for MSK US). This proposal also acknowledges that all physics learning and assessment must be appropriate to the learner's breadth/remit of MSK US practice.

3. Programme/Course Philosophy

Programmes/courses must support the development of sonographers with the underpinning knowledge, skills and attributes required for safe and effective ultrasound practice. Sonographers should also develop critical thinking skills to enable them to deal with situations arising within their scope of practice and demonstrate a clear understanding of their strengths and limitations and role within the patient care pathway. Sonographers should have a sound understanding of patient care pathways, local and national guidelines, develop interprofessional and team working, perform audits and engage in research collaborations to make service improvements. The importance of and engagement with 'Experts by Experience', service users and carers within their work is an essential element of the role and education of sonographers. As a practitioner progresses through their career, they should develop expertise that can be adapted to new and increasingly complex situations and, at all levels, be supported through a formal, structured preceptorship period, with appropriate on-going mentoring,

continuing professional development (CPD) and support to undertake further educational study and research.

At all levels, it is important that qualified health practitioners undertaking sonography as part of their scope of practice follow Royal College of Radiologists (RCR) guidance and:

- Acknowledge the importance of robust clinical governance and inter-professional relationships within teams;
- Practise within their level of competency;
- Practise in accordance with their local clinical protocols, an approved scheme of work and agreed delegation of clinical responsibility;
- Refer to more experienced sonographic and radiological colleagues when uncertain of the findings and/or seek advice about patient management/further investigations;
- Practise according to current evidence-based professional standards and requirements.

Where the practise is outside the Radiology Department setting, <u>medical</u> input may be from other colleagues such as vascular surgeons, rheumatologists, obstetricians or gynaecologists.

The CASE definition of scope of practice is "The area or areas of your profession in which you have the knowledge, skills and experience to practise lawfully, safely and effectively, in a way that meets CASE standards and does not pose any danger to the public or to yourself".

As 'Sonographer' is not currently a protected title in the UK at this present time, direct-entry graduates will NOT be eligible to be registered with the HCPC, although it is hoped that this will become a possibility in the future. For this reason, employment may not be possible in certain NHS Trusts and some private sector organisations, although many organisations already employ sonographers from non-traditional backgrounds. Graduates from direct-entry programmes/courses will, however, be eligible to join the Register of Clinical Technologists (RCT) accredited by the Professional Standards Authority (PSA).

Although sonography is not yet subject to statutory registration, qualified health practitioners, such as diagnostic radiographers, midwives and physiotherapists, undertaking ultrasound programmes/courses will already be registered with the relevant regulatory body and will therefore be required to work within their scope of practice at all times.

3.1 Programme/Course Aims

The following aims relate to academic levels 6 and 7.

3.1.1 Academic Level 6

Level 6 programme/course aims are:

- To produce a competent, safe sonographer with the knowledge, understanding and ability to independently undertake, interpret, analyse and report ultrasound scan findings within their scope of practice, with appropriate supervision available;
- To equip the sonographer with the appropriate professional attributes including the six
 C's of care, compassion, courage, commitment, competence and communication skills,
 to work effectively and empathetically with a wide range of service users and carers, and
 meet core skills required for professional practice;
- To ensure that the sonographer has a thorough understanding of their scope of practice and the importance of working under the supervision and mentorship of senior staff to develop personal, professional, clinical and research skills;
- To develop sonographers who are safe, reflective practitioners, responsive to patient
 and service needs, with analytical and problem-solving skills, the ability to critically
 review evidence and clinical practice and disseminate knowledge to others;
- To ensure the sonographer has a comprehensive understanding of how to evidence and develop their skills, knowledge, reporting practice and clinical competency to progress to the next level of practice.

3.1.2 Academic Level 7

Level 7 programme aims, in addition to academic level 6 aims, are:

- To produce a competent, safe, reflective sonographer with the knowledge, understanding and ability to independently undertake, interpret, analyse and report ultrasound scan findings within their scope of practice, with appropriate supervision available. They will have the skills to develop and become capable of managing and independently reporting complex case-loads within their scope of practice;
- To equip the sonographer with the skills and attributes to communicate effectively with
 a wide range of service users and carers, use evidence-based practice and clinical
 decision-making skills in a range of situations, suited to their scope of practice, with the
 ability to progress to managing complex and uncertain situations;
- To ensure the sonographer has the underpinning knowledge and ability to develop their leadership and management skills, education of self and others, and engage in research;

- To develop sonographers who are able to mentor and support others to ensure safe practice that is responsive to patient and service needs;
- To ensure the sonographer has a comprehensive understanding of how to evidence and develop their own skills, knowledge and practice, and those of others to implement change and improve the service provision;
- To equip the sonographer with the skills, knowledge and confidence to engage in
 effective team-working with senior clinical and radiological colleagues, along with the
 ability to contribute meaningfully to multi-disciplinary team meetings;
- To ensure that the practitioner has high-level communication skills to communicate highly complex, conflicting and sometimes ambiguous information clearly, to influence policy makers and inform decisions about future directions within the profession;
- To provide support to enable the sonographer to proactively engage in leadership and management, consultancy, education and research at local, national and international levels and support the professional development of others;
- To equip the sonographer with a thorough understanding of the need for and complex nature of reflective practice, staff development, preceptorship, mentoring and coaching, to enable them to ensure practice and ultrasound reports of junior colleagues are sufficient to guide effective patient management;
- To provide the sonographer with the skills, knowledge and confidence to engender a leadership culture for positive change and improvements to service delivery to ensure high standards of patient-centred care.

4. The Accreditation Process

The accreditation process for a new part-time postgraduate ultrasound programme/course will normally require a formal validation event and a visit to the Education Provider offering the programme.

4.1 Application for Accreditation/Reaccreditation

The Programme/Course Lead needs to apply to CASE, using the appropriate form, to indicate that they wish to seek accreditation/reaccreditation for their part-time postgraduate ultrasound programme/course. The form is available on the CASE website Apply for Accreditation (case-uk.org)

NOTE: Only the current form from the website should be used.

The postgraduate ultrasound programme/course documentation is to be sent to CASE twelve months before the proposed validation/re-validation event for the course and a decision as to whether the programme/course satisfies the conditions for CASE accreditation will be made at the next CASE Committee meeting. Where a programme/course does not meet the criteria for entry into the accreditation process, an explanation will be given and advice may be offered to enable a successful application to be made. For example, this may be because the proposed programme/course is too broad in terms of subject matter or lacks practical clinical competency training and assessment.

4.2 Accreditation Timeline and Associated Responsibilities

Action	Indicative Time - indicates before	Education Provider	CASE Committee	Lead Accreditor	Co-accreditor	Shadow Accreditor
	the event	Provider	Committee	Accreditor		Accreditor
	+ indicates after					
	the event					
Application submitted for	-12 months					
accreditation						
CASE agrees to accredit or	-9 to 12 months					
sends explanation						
Accreditation team	-9 to 12 months					
assigned						
Lead Accreditor liaises	When appointed					
with programme/course						
team	-6 months					
Support provided (as required)	-0 1110111115					
Date for event agreed	-4 months			П		
between all stakeholders]
Documentation submitted	-2 months					
to CASE accreditation						
team						
Accreditors review the	-2 to -1 month					
documentation						
Accreditors send initial	-6 weeks					
feedback to Lead						
Accreditor Lead Accreditor arranges	-6 or 7 weeks					
meeting with accrediting	-6 or 7 weeks					
team				_		
Accreditors discuss the	-6 or 7 weeks			П		
documentation				ш		
Additional advice sought	-6 or 7 weeks		П			
from Education Officer or			_			
Training Lead (as required)						
Request further	-5 or 6 weeks					
documentation/evidence						
from Education Provider (as required)						
Review additional	-5 weeks					
documentation (as	-3 MEEKS					
required)						
Collate feedback from all	-1 month					
accreditors and send to						
Education Provider						
[named contact]						
Possible further response	-2 weeks					
from education provider						
Draft validation event	-2 weeks					
agenda circulated						

Agenda agreed	-2 weeks			
Event takes place (if deemed necessary)	Event			If remote attendance
Discussions take place	Event or online			
Minutes taken	Event or online			
Initial feedback provided*1	Event or online			
Headline report / meeting minutes received from Education Provider	+1 week			
Draft accreditor report completed	+1week			
Draft accreditor report agreed	+1 week			
Debrief meeting arranged with CASE Education Officer, Training Lead &/or Committee Members and Accrediting Team	+2 weeks			
Debrief meeting	+1 to +2 weeks			
Lead Accreditor informs Education Provider of finalised conditions, recommendations and commendations*2	+2 weeks			
Amended documentation submitted to Accrediting Team (as required)	Agreed at event or within 6 weeks post-event			
Discussion on revised documentation (as required)	As agreed +3 months			
Final Accreditor Report agreed with Accrediting Team and sent to CASE	+2 weeks after final documents reviewed			
CASE Committee review results of accreditation	+3 months			
CASE inform Education Provider and provide feedback	+ 3 months			
Definitive documents sent to CASE, fees up to date	+4 months			
Programme/Course entered onto CASE Directory of Courses	+4 months			

^{*1} Feedback may be given at the event or afterwards depending on the circumstances. New or complex programmes/courses may require consultation with CASE Committee. No decisions at an event are final.

4.3 Interaction between CASE Accreditors and Education Provider

Following acceptance of a course for accreditation/re-accreditation CASE will appoint a Lead Accreditor, a Co-accreditor and a Shadow Accreditor. As the Lead Accreditor, you will contact the Programme/Course Lead and liaise with them to agree a way to proceed. In particular, you

^{*2} All feedback is subject to review by CASE Committee.

will indicate whether a formal meeting/event is required and what form it should take. (Please also refer to the CASE Position Statement located in Section 2.4).

If a face-to-face 1-day CASE-only accreditation event is required, the example timetable shown below can be used by accreditors and adapted to your own needs. This example includes all activities that should be covered, including private time for CASE Accreditors. The start time can be adjusted to suit your travel arrangements. Once agreed, the Lead Accreditor will share the timetable with the Programme/Course Lead so that the event can be arranged.

Example Timetable for a CASE-only Accreditation Event					
TIME	ACTIVITY				
09:00 - 09:30	REFRESHMENTS				
09:30 – 10:00	Guided tour of the University's ultrasound facilities e.g. Simulation Suite				
10:00 – 10:30	Private CASE Panel meeting with external stakeholders and Clinical Placement Leads				
10:30 – 11:00	Private CASE Panel meeting with students (if revalidation)				
11:00 – 11:10	Welcome and Introductions				
11:10 – 11:20	Brief presentation from the Programme/Course Team with brief Q&A session				
11:20 – 11:30	Dean's report to CASE Panel demonstrating support for the Programme/Course				
11:30 – 12:30	Main question and answer discussion between the Team and the CASE Panel				
12:30 – 13:30	LUNCH BREAK				
13:30 – 14:00	Private CASE Panel meeting to determine conditions, recommendations and commendations				
14:00 – 15:00	Discussion of proposals between the Team and the CASE Panel				
15:00 – 15:45	Private CASE Panel meeting to agree outcome, conditions, recommendations and commendations				
15:45 – 16:00	CASE Panel provide feedback to the Programme/Course Team (including the identification of areas of good and best practice)				
16:00	CLOSE				

Student and stakeholder feedback may be required even if no formal meeting/event occurs. In the case of a formal validation meeting, a secretariat to minute proceedings is normally arranged by the Programme/Course Faculty. As Lead Accreditor, you will need to ensure that this is in place.

Following any formal meeting/event and review of the documentation, the Co-Accreditor will convene an online post-accreditation/reaccreditation debrief meeting to act as a feedback mechanism between the accreditors and CASE Committee members. The purpose of this meeting is to discuss the proposed conditions, recommendations and commendations with Committee members to ensure parity across all CASE accredited programmes.

The online debrief meeting also supports accrediting teams by providing a forum to explore any challenges and concerns related to the event, the documentation, the conditions and/or the recommendations. The Lead Accreditor, Co-Accreditor and Shadow Accreditor should all attend, as it presents a learning opportunity for the accrediting team to discuss any issues after a period of reflection.

Following the online debrief meeting, as Lead Accreditor, you will prepare a formal report using the Postgraduate Programme/Course proforma for consideration and action by CASE Committee at its next meeting. CASE will then inform the Programme/Course Lead of the result of the accreditation process or request further information, as required.

CASE accreditation for a Postgraduate Programme/Course will normally be for five years. In exceptional circumstances a short extension of a current accreditation period may be granted by CASE; for example, to fit in with an institution's internal review period.

PLEASE NOTE: Accreditor travel and accommodation expenses are paid by the Programme/Course Faculty.

4.4 What are you looking for?

Programme/Course documentation should include clear detail regarding the following:

- Does the programme/course title reflect the defined scope of practice?
- The specialist areas to be covered and any limitations to the scope of practice?
- The duration of the programme/course;
- The amount of face-to-face contact time between the programme/course team and the students (this must be a minimum equivalent of four days; however, where blended elearning is included there must be a minimum of two full contact days);
- The content of the teaching provided;
- How knowledge and understanding of the theory will be assessed;
- How the core topics of science and technology and professional issues will be covered;
- The practical clinical training provided;
- How the students will gain practical clinical experience;
- Who will supervise students' practice training throughout the programme/course?

- How the students are to be assessed to ensure competence to practise;
- The competency certificate issued on successful completion of the programme/course.

In relation to the above, Programme/Course Leads need to be aware of the following statement to reinforce the use of the Documentation Checklist (<u>Appendix 2</u>) and to understand that poor documentation can cause a delay in the process.

CASE accreditors undertake this work in addition to their substantive roles. To ensure timely and effective accreditation processes, documentation should be complete, in a logical order with clear indexing and sent in a timely manner.

The CASE website has a section entitled 'Documentation requirements - A checklist for the course team' to assist course teams when preparing for accreditation / reaccreditation.

Inaccurate, incomplete, contradictory or disorganised documentation takes up an enormous amount of accreditor time. CASE will no longer be able to review substandard documentation. Course teams will be asked to follow the guidance and complete the documents to an acceptable standard otherwise this may delay accreditation / reaccreditation.

5. Criteria for Successful Accreditation

CASE supports innovation in development and flexibility of delivery for all medical ultrasound related educational programmes/courses, actively encouraging the utilisation of an outcome-based approach throughout the process. Educational and training paradigms promote the philosophy of student-centred learning supported by appropriate and robust tutor provision, in addition to the traditional method of lecture-based delivery. This places the responsibility of learning jointly on the student and the tutor. Material may also be presented to the student by electronic means as blended learning. Simulation of scanning is increasingly being used as a teaching and assessment tool and is to be encouraged, as it can reduce the time required to achieve competent scanning whilst helping to monitor student progress. During the validation and accreditation process, you will need to see documented evidence that supports this mixed approach both in the classroom and workplace.

CASE will also look to Programme/Course Leads to embed originality of thought and evidence-based practice within the curricula, mode of delivery and assessment process, whilst complying with current international, national and local legislation, healthcare policy and professional guidelines, to ensure that practitioners meet the required standards of practice. In particular, CASE will support programmes/courses that offer learning in such a way as to suit the workforce

for whom they are developed, whilst ensuring that a competency to practise outcome is paramount.

5.1 Scope of Validation

There are seven areas of particular importance which you, programme/course leads and clinical teams will need to consider in order to secure CASE accreditation. These are:

- programme/course learning outcomes;
- programme/course content and learning material;
- theoretical and clinical assessments;
- · academic and clinical teaching teams;
- · academic learning environment;
- · clinical skills placements;
- quality assurance procedures.

The contents of this section are appropriate for both accreditation and re-accreditation of programmes/courses. CASE will expect information relating to the above areas to be embedded appropriately throughout the programme/course documentation and used as a basis for discussion at the validation/periodic review/revalidation meeting/event.

5.2 Programme/Course and Module Learning Outcomes

The primary programme or course outcome assessed by CASE is competency to practice which, according to the CASE principles, includes the ability to both perform a scan and to produce a definitive, interpretive, actionable clinical report. An institution seeking CASE accreditation must satisfy CASE that the learning outcomes for the programme/course or modules can be satisfactorily achieved through its delivery of the learning material and associated assessments.

CASE recognises that M-level learning outcomes have equal standing across the three stages of a postgraduate programme; however, where an advanced practice route has been identified in the documentation, the learning outcomes should reflect this additional depth and breadth of student learning.

5.3 Mapping Programme/Course Learning Outcomes

The programme/course learning outcomes indicate what a student should be able to do by the end of the programme/course and must be relevant to the clinical application of ultrasound being studied. The CASE Level 6 and Level 7 Learning Outcomes are shown in Appendix 1.

National Occupational Standards for Sonography (<u>Appendix 3</u>), developed as part of the National Health Service (NHS) Knowledge and Skills Framework describe the "skills, knowledge and understanding needed to undertake ultrasound examinations to a nationally recognised level of competence. They focus on what the sonographer needs to be able to do, as well as what they must know and understand to work effectively".

The Society and College of Radiographers (SCoR) and the British Medical Ultrasound Society (BMUS) support the minimum training requirements for the practice of medical ultrasound in Europe proposed by The European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB), which includes theoretical and clinical education, with clinical competency assessment.

UK Higher Education Institutions (HEIs) refer to the minimum training requirements identified in the 'Ultrasound Training Recommendations for Medical and Surgical Specialities' published by the Royal College of Radiologists (RCR, 2017), along with the 'Standards for Interpretation and Reporting of Imaging Investigations' (RCR, 2018) when developing ultrasound programmes/courses. These documents, which have been used to inform the development of ultrasound educational standards, can be found at:

<u>Ultrasound training recommendations for medical and surgical specialties, Third edition | The Royal College of Radiologists (rcr.ac.uk)</u>

<u>Standards for interpretation and reporting of imaging investigations, Second edition | The Royal College of Radiologists (rcr.ac.uk)</u>

As part of the accreditation process, module and programme/course learning outcomes should be mapped to the relevant CASE learning outcomes in the Standards for Sonographic Education document, to show how these outcomes are met within the programme/course and to the National Occupation Standards (NOS).

- For academic level 7 programmes/courses for existing health care professionals, mapping should be for the level 7 learning outcomes and ultrasound imaging NOS;
- For academic level 6 and direct entry level 7 programmes/courses, mapping should be to the level 6 learning outcomes, ultrasound imaging NOS and the 'Standards of Proficiency for a Sonographer' (based on HCPC standards);
- For programmes/courses with modules that include interventional procedures, mapping to the interventional NOS should also be completed.

• The CASE learning outcomes, NOS mapping documents and 'Standards of Proficiency' are all available on the CASE website at:

www.case-uk.org/information/apply-foraccreditation/standards-learning-outcomes-mapping

• For each module, the programme/course documentation should show how these outcomes are to be assessed.

5.4 Programme/Course Content and Learning Material

CASE will consider the Programme/Course learning material in terms of its specific clinical and academic topic areas. Although the programme/course titles and learning components may vary between institutions and faculties, the learning material will contain essential knowledge that is common to all.

CASE requires the institution or faculty to clearly evidence that the Programme/Course seeking accreditation/periodic review/reaccreditation delivers this learning material effectively and, as such, CASE accreditors will expect to see evidence in the documentation of learning theory related to contemporary clinical practice.

For purposes of accreditation, CASE divides the learning material into distinct components:

Science and Technology

Typical subject areas may include: principles of ultrasonic imaging; ultrasound and its propagation in tissue; image generation; ultrasound artifacts; principles of Doppler ultrasound; development of ultrasound imaging technology; equipment choice and manipulation; equipment appraisal and evaluation; image recording; ultrasound bio-effects; quality assurance. These are to be linked to image acquisition, optimisation and interpretation, and must be relevant to the clinical applications of ultrasound being studied.

Professional Studies

Typical subject areas may include: communication; patient care and advocacy; health and safety (including ergonomics and infection control); image appraisal; clinical reporting; judgement and decision-making; clinical audit; evidence-based practice and clinical governance; national and local healthcare policies and ethics; promoting health and wellbeing; self-development; critical appraisal skills.

As students completing part-time postgraduate programmes/courses tend to be qualified health practitioners, this learning will need to be tailored according to their professional background and the clinical applications of ultrasound being studied.

Specific Clinical Topics

All CASE accredited programmes and courses are required to identify specific clinical topics in addition to the core material, such as obstetric, pelvic, abdominal, superficial organs, musculoskeletal, vascular, breast, cardiac or trauma ultrasound. The following will need to be included in relation to each clinical topic:

- Applied anatomy, physiology and patho-physiology;
- Scanning methods and techniques, including relevant measurements;
- Power Doppler, colour flow mapping and spectral analysis;
- Use and applications of ultrasound contrast agents;
- Ultrasound appearances, including normal anomalous appearances and the appearances of common pathological processes;
- Clinical reporting;
- The contribution ultrasound makes to the clinical management of patients;
- The role and value of complementary imaging.

Typical subject areas within specific module content are as follows:

- General medical applied abdominal, pelvic and systemic anatomy and patho-physiology; scanning methods, techniques and measurements for pelvic and general medical ultrasound (to include superficial organs); ultrasound appearances of the gastrointestinal system; male and female genitourinary system; retroperitoneal structures; superficial structures; abdominal pathology; common gynaecological pathology; ultrasound-guided procedures.
- Gynaecology applied abdominal and pelvic anatomy and patho-physiology; embryology and physiology of the reproductive process; scanning methods, techniques and measurements for pelvic and renal ultrasound; ultrasound appearances of the female genitourinary system; gynaecological pathology; ultrasound-guided procedures.
- Obstetric applied abdominal and pelvic anatomy and patho-physiology; embryology and physiology of the reproductive process; prenatal screening and counselling; scanning methods, techniques and measurements for obstetric, pelvic and renal ultrasound; fetal development; placental morphology and function; fetal biometry; growth profiles and wellbeing, antenatal screening; early pregnancy problems; multiple pregnancy; fetal anomalies; ultrasound-guided procedures.
- Vascular applied vascular abdominal, pelvic and systemic anatomy and pathophysiology; principles of continuous and pulsed wave Doppler imaging; principles of power Doppler and colour flow mapping; volume flow measurements; haemodynamics; scanning methods, techniques and Measurements for vascular ultrasound; clinical

- applications (including lower limb vasculature, upper limb vasculature, abdominal applications, intra- and extra-cranial carotid vasculature).
- Musculoskeletal applied musculoskeletal anatomy and patho-physiology; scanning methods, techniques and measurements; principles of power Doppler and colour Flow mapping; ultrasound appearances (including normal anomalous appearances and the appearances of common pathological processes.

Please note that this list is illustrative not exhaustive.

Negotiated Learning/Focused Practice/Specialist Skills Modules

These, mostly independent modules where students negotiate their academic, clinical and personal learning through a specific study contract, are increasingly being embedded in postgraduate ultrasound programmes/courses. They provide critical learning opportunities for those students whose practice falls outside the scope of a defined clinical ultrasound practice module. CASE will consider for accreditation an independent practice module as described above; however, in order for it to align with other clinical modules in the programme/course, it must include a robust competency assessment scheme that matches, wherever possible, that integrated into the named clinical ultrasound modules associated with the same pathway or programme/course.

Theory-only Clinical Modules

CASE may consider the inclusion of a theory-only ultrasound module in a programme/course on condition that student clinical competency, in the pathway in which it is embedded, can be evidenced by an additional clinical ultrasound module that reflects the accredited award.

Clinical Combination Modules

CASE may consider a clinical ultrasound module combination, such as obstetrics and gynaecology, in a CASE-accredited pathway. Where a module contains two major clinical components, consideration should be given to dividing the module. Normally, such a module will have been developed by programme/course teams following a specific request from service and will contain a basic learning and skills element related to the minor clinical component. Programme/course teams should ensure that the rationale is robust, the learning outcomes match the dual nature of the module profile, the assessments are developed to reflect the learning experience and that the balance between the subject areas is appropriate. The module credits for combination modules will need to be appropriate for the content. As CASE Accreditors, you will need to spend time during the accreditation process to ensure that this type of module aligns with others in the programme/course and that any duplicate learning and

assessment that may arise during students' module selection or progression can be dealt with appropriately by the programme/course team.

6. Theoretical and Clinical Assessments

All CASE accredited programmes/courses require a robust and transparent process for monitoring and assessment of a student or trainee's clinical progress and competence. These guidelines are designed to ensure patient safety, maintain professional standards and ensure equitable provision of academic awards. They indicate the areas the accreditors will examine to validate the achievement of clinical competence in scanning practice. Details of how the programme/course will implement all aspects of clinical training and assessment of competence should therefore be given in the course documentation.

An institution seeking CASE accreditation must satisfy CASE that the assessment strategies applied to the academic and clinical components are sufficiently rigorous to enable successful students and trainees to demonstrate such skills as appropriate to a competent practitioner.

These strategies must be appropriately matched to and measure the learning outcomes for the programme/course. CASE advises that the assessment methods used for the academic components of the programme/course reflect relevant aspects of the clinical or professional role of the competent practitioner and, wherever possible, are linked to practice.

Examples of typical theoretical methods of assessment may include objective structured tests (OST, OSE or OSCE), multiple choice questions, case studies, essays, presentations, posters, portfolios, unseen examinations, open book examinations and on-line discussions. Peer or group assessment may be used where appropriate. Electronic assessment will be considered; however, it must demonstrate academic rigour for Level 7 programmes/courses. In the absence of evidenced exceptional/mitigating circumstances or equivalent, CASE permits two attempts at each assessment (a first attempt and one reassessment). CASE does not permit the use of compensation or condonement in relation to failed elements of assessment; all assessments must be passed. In addition, CASE does not support 're-take' modules where a student has exhausted both first and reassessment opportunities on the first attempt at a given module.

Simulation can be offered as a response to the challenge of ensuring consistent learning in clinical practice and has become increasingly attractive as an alternative education strategy in many settings. Simulators have a valuable role in giving the trainee exposure to specific scans and pathologies in a standardised setting, which enables the trainee to gain in confidence whilst learning to scan. Psychomotor skills can be developed in the safety of a classroom, and the trainee will be introduced to a wide range of scanning appearances to prepare them for real-life

scanning. The use of simulators can never replace scanning performed in a clinical setting with patients, and should therefore only be incorporated as an adjunct during training. Simulators provide a tool for giving feedback to the trainee during formative training, and may also have a limited role within a summative assessment. This, however, should not substitute assessment in a real clinical situation that would include patient interaction, scanning, management of machine set-up and reporting.

Clinically, the emphasis needs to be on the demonstration of competence. The number of scans completed and period of supervision needed to achieve this may vary considerably between different areas of practice and individual prior experience. For example, there may be some specialist areas where ultrasound is used infrequently (e.g. ultrasound-guided injection) for which a flexible or extended period of training may be required. Self-audit against an agreed standard is recommended to provide evidence that learning outcomes have been met.

As the clinical supervision and experience required is dependent on the scope of intended learning outcomes, CASE will consider each individual programme/course to ensure that these are achievable within the proposed clinical practice arrangements.

Gaining clinical competence is aided by keeping a log of scans undertaken, whether they are observational, supervised-assisted or supervised-unassisted, together with a brief indication of the reason for referral, the outcome of the scan and any learning points noted. This log, which may form part of a portfolio, will provide a record of the students' progress against defined milestones and evidence of the range of ultrasound examinations undertaken.

Gaining extra scanning experience through the use simulation, where available, is encouraged to increase confidence when performing scans and operating equipment controls. This is particularly helpful during the early stage of a programme/course, as it facilitates the development of hand-eye co-ordination and scanning techniques in a safe learning environment.

In addition to appropriate patient management, achieving clinical competence includes being able to operate the scanner controls in order to optimise the image acquisition for each patient, to obtain the required images of the anatomy and pathology being examined, together with any measurements, and to write a clinical report of the examination. All of these aspects of clinical competence need to be assessed to determine whether baseline clinical competence has been achieved.

The fundamental aim of CASE is to ensure that, on completion of the period of learning, the exiting students or trainees are clinically competent to undertake ultrasound examinations and

are professionally responsible for their own workload. In order to demonstrate competency, clinical assessment must be undertaken in all CASE accredited programmes/courses.

Clinical competence should be formally assessed and documented by the student's practice educator/mentor/clinical supervisor periodically throughout the programme/course using a Formative Clinical Assessment Form (an example is shown in Appendix 4), with ongoing developmental feedback being given to the student. The aims of the formative clinical assessment process are multifold, in that they facilitate familiarity with the clinical assessment process, allow identification of the student's current strengths and weaknesses, provide evidence of sufficient/insufficient progress and demonstrate the level of proficiency attained in the relevant pre-defined areas of clinical practice. As a result of this process, targeted interventions must be put in place to ensure that students are ready to undertake the summative clinical assessment by the course submission date.

CASE requires that clinical assessments must carry a Pass or Fail criterion, where Pass is a minimum standard that is equivalent to safe practice or baseline clinical competence. The assessment methods employed must be clearly identified and the rationale appropriately justified by the programme/course team or faculty. An example of a Summative Clinical Assessment Form is shown in Appendix 5.

Two internal clinical assessors are required for every summative clinical <u>assessment</u>. For first attempts, one <u>MUST</u> be the student's practice educator/mentor/clinical supervisor and the other must be a suitably qualified independent assessor who has not been heavily involved in the training of that student.

For every summative clinical <u>re-assessment</u>, two assessors are required. One <u>MUST</u> be the student's practice educator/mentor/clinical supervisor and the other may be a member of the academic team staff or a trained assessor acting as a representative of the education provider. Both of these individuals must be qualified in the clinical application of ultrasound being studied/assessed.

The programme/course team or faculty need to demonstrate how external moderation will be applied for ensuring consistency of clinical assessments across different clinical departments.

6.1 Academic and Clinical Teaching Teams

In this context, the programme/course team is taken to mean those individuals who contribute to the delivery of the academic and clinical components of the programme/course and to its quality assurance. The terminology for the different roles varies amongst professional groups.

The terms below are to assist in defining each role, although there may be some overlap between roles in practice.

Education/Training Provider

A higher educational institution (HEI) or training course centre providing a CASE accredited programme/course. The education and training provider must provide support, advice and regular training updates for individuals who contribute to the delivery of the clinical components of the programme/course and to its quality assurance.

CASE will normally expect practice educators/mentors/clinical supervisors and external assessors/external moderators/independent assessors to attend training run by the education and training provider, to ensure sharing of good practice and continuing updates. The education and training provider is expected to organise such training days, including additional training following any major changes to the programme/course. If on-line training is utilised, CASE will need to see evidence of this to assess the suitability for preparing clinical staff for their role in relation to the delivery of the programme/course.

Academic Teaching Team

CASE requires that the Programme/Course Leader, or Deputy, holds a postgraduate ultrasound qualification or Diploma in Medical Ultrasound (DMU) and has at least two years appropriate clinical experience. The relevant expertise, for full programme/course delivery, should ideally be held across members of the academic teaching team; however, where specialist expertise is needed, relevant external/associate lecturers should be sourced from outside the institution.

In addition, CASE requires that the programme/course team must have an adequate level of staffing to cover the anticipated student numbers and, where there is a single point of failure due to a low staff:student ratio, CASE expect to see a mechanism in place to ensure safe staffing to support the student experience and secure sustainability of the programme/course.

CASE also strongly recommends that:

- At least one other member of the academic teaching team holds an ultrasound qualification and has had relevant clinical experience;
- At least one member of the academic teaching team holds an ultrasound qualification and has an honorary or permanent contract with a local department in order to be able to regularly participate in ultrasound sessions;
- At least one member of the teaching team is qualified to deliver the science and technology component of the programme/course.

Practice Educator / Mentor / Clinical Supervisor

Ultrasound practitioners in the clinical placements identified as practice educators, mentors or clinical supervisors are named individuals who lead on the clinical teaching of a student or trainee. They are responsible for the delivery, integration and quality of the clinical learning episodes and for ensuring that they match those of the theoretical knowledge acquired in the classroom. It is expected that the practice educator/mentor/clinical supervisor will work closely with the student, facilitating the clinical training and ensuring that learning outcomes and competencies are achieved within the designated timeframe. In order to provide high quality experiential learning in the workplace, the practice educator/mentor/clinical supervisor must have a wide range of experience and hold a recognised ultrasound qualification in the areas of practice being studied by the student or trainee, unless this is a new area of practice or an extended role such as interventional ultrasound or point of care ultrasound.

All student/trainee scans must be directly supervised by an appropriate practice educator/mentor/clinical supervisor who has appropriate qualifications and experience (i.e. a PgC, PgD or MSc ultrasound qualification and a minimum of two years current, post-qualification experience or Level 2 Radiology) aligned with the student's/trainee's breadth/remit of practice, as defined in their portfolio/learning contract. Remote supervision is not permitted. Where there is a significant shortage of available practice educators/mentors/clinical supervisors, qualified staff with a minimum of one year current, post-qualification experience may act as the local practice educator/mentor/clinical supervisor if at least one other member of the supervisory team meets the minimum requirement of two years current, post-qualification experience.

An enthusiasm and ability to teach are essential qualities of a good practice educator/mentor/clinical supervisor which, coupled with knowledge and expertise, are as important as the length of experience. The named practice educator/mentor/clinical supervisor is responsible for liaising with the education provider on issues relating to training. The practice educator/mentor/clinical supervisor fulfils the role of internal assessor for both formative and summative clinical assessments and liaises with the academic team and clinical training coordinator regarding any targeted interventions that need to be put in place to ensure that students are ready to undertake the summative clinical assessment by the programme/course submission date.

Clinical Training Co-ordinator

A named individual, within the clinical department, who co-ordinates the training of a student or trainee to ensure there is a supportive environment in which they can develop the required range of clinical skills. This individual may not necessarily be involved in the clinical training of a student or trainee but, in addition to their co-ordination role, acts in a supportive, pastoral

capacity for the student or trainee and provides support for the clinical supervisor/mentor/clinical supervisor.

This role may also include involvement in the accreditation process of the clinical department by the training centre. Clinical training co-ordinators may be identified as relevant to some programmes/courses to ensure that equivalent standards of clinical experience are offered to all students irrespective of their clinical skills placement.

External Assessor / External Moderator / Independent Assessor

This role is usually fulfilled by an external, independent person who ensures unbiased clinical competency assessments are carried out. This person may be known as a verifier by some training centres. This would normally be an individual nominated by the training provider, working independently from the student or trainee's clinical placement, who moderates the final summative clinical competency assessment with the internal assessor. To ensure rigorous and equitable assessment of the students'/trainees' clinical abilities, protection of the public and reduce bias, CASE expects all programme/course summative clinical assessments to be moderated by an external assessor/moderator/independent assessor who is not directly responsible for the students' training.

The external assessor/moderator/independent assessor should be a senior professional with appropriate experience who is able to demonstrate on-going continual professional development (CPD) relevant to the area(s) of practice they are assessing. As the role involves ensuring appropriate standards are consistently met, it is advisable for the external assessor/moderator/independent assessor to have a minimum of three years clinical experience, plus appropriate training in relation to the summative assessment process.

The external assessor/moderator/independent assessor should be carefully chosen to ensure extensive experience in their field of practice, with a good knowledge of current clinical practice, and academic and clinical standards, to provide a supportive, fair and unbiased summative assessment. Regular assessor training or updates, along with clear assessment guidelines, should be used by the education and training provider to ensure consistency of assessment. Moderation of new external assessors/moderators/independent assessors is advisable to ensure consistency.

Student / Trainee

An individual who is learning ultrasound in any capacity i.e. someone learning ultrasound for the first time or extending their scope of ultrasound practice.

CASE strongly recommends that a Learning Contract or Agreement is set up between the education/training provider and the student's/trainee's employer in which the employer agrees to provide clinical training and assessment in accordance with the accredited procedures and expectations of the programme/course. The education and training provider will be responsible for providing mentor and assessor training. In addition, it is recommended that institutions or programme/course faculties retain a register of appropriately trained staff participating in the mentoring and assessment scheme.

CASE will expect, both in documentation and during scheduled visits to placements, a clear demonstration of the quality, nature and range of clinical facilities, including equipment and staffing, necessary to support the students/trainees in their clinical education and practice. For example, CASE will expect to see evidence that students/trainees are able to take part in appropriate, dedicated training lists throughout the duration of the programme/course. There should also be:

- Clear evidence of co-operation strategies between the academic and clinical teaching teams;
- A defined strategy for the selection, training and provision of support mechanisms for practice educators and mentors;
- Evidence that the external/independent assessor is familiar with medical ultrasound practice in a wide range of healthcare situations, the practitioners who access the programme/course and its methods of clinical training and assessment;
- Evidence that the teaching teams, practice educators/mentors/clinical supervisors are undertaking appropriate continuing professional development (CPD) as defined by the relevant professional bodies.

6.2 Academic Learning Environment

The academic learning environment may refer to an actual or virtual classroom. CASE strongly recommends that:

- Suitable accommodation is available for the delivery of lectures, skills workshops, group sessions and tutorials for the anticipated maximum number of students;
- Suitable audio-visual and information technology equipment is available for delivery of the programme/course, both at the learning centre and clinical placements;
- A virtual learning environment is available for those students who are remote from the classroom environment;

 Library facilities are available to support ultrasound students working at postgraduate level.

6.3 Clinical Skills Placements

A Clinical Skills Placement is a provider of high quality medical ultrasound education and training which undertakes medical ultrasound examinations that reflect the current evidence base and are appropriate to the student's academic and clinical needs. Its staff, in particular those who undertake the role of practice educator, mentor or clinical supervisor to support students and trainees, must be committed to the programme's or course's philosophy.

It is the responsibility of the programme/course team to determine the suitability of clinical departments for clinical skills training. This may be achieved by auditing proposed clinical placements as part of the admissions process (Appendix 6) and/or by carrying out site visits.

CASE expects education and training providers to have a robust mechanism in place to assess the clinical placement site prior to enrolling a student or trainee onto the programme/ course, and to monitor the site throughout the duration of the programme/course. This is to ensure that students or trainees will have access to:

- A wide range of examinations relevant to the areas of clinical practice;
- Protected, supervised hands-on scanning time for the duration of the award (no unsupervised scanning or decision making);
- An appropriate number of suitably qualified staff to support them within the department;
- Tutoring from experienced professionals;
- A supportive learning environment;
- A clinical learning experience supported by evidence-based protocols and adhering to national/international recommendations where these exist.

Clinical placement decisions should be based on the ability of the clinical site to provide appropriate evidence-based training. In order to achieve appropriate clinical competency, a student or trainee needs access to high-quality hands-on supervised experience within the clinical department. Students/trainees **must not** scan unsupervised until they have achieved formal clinical competency i.e. until they have successfully completed their summative assessments and their award has been formally ratified by the appropriate examination board(s) for that clinical area of practice. Dedicated training lists should, therefore, be incorporated into

the department's work schedule, in order to provide protected hands-on time for student learning with the clinical supervisor/mentor/practice educator. Importantly, the education and training provider must have a policy and a procedure in place for monitoring and recording the students' completion of the required clinical hours. As this relates to the acquisition of the required clinical competencies, CASE strongly recommends that students attain a minimum of 90% clinical attendance.

The guidance on minimum requirements and mentoring will vary slightly for programmes/courses relating to point of care ultrasound and negotiated modules due to the variability of workload, the nature of the examinations and the opportunities to undertake scans. Education and training providers will, however, need to provide robust evidence of progress monitoring, the quality of mentoring and clinical competency assessment during the accreditation process.

In order to ensure patient safety, no student/trainee should be taking full responsibility for an ultrasound examination until their award has been formally ratified by the appropriate examination board(s). Supervision is essential during the learning process for any CASE accredited award.

7. Quality Assurance Procedures

It is expected that programmes/courses will be subject to the formal quality assurance processes of the HEI or training centre providing the programme/course. This will include, for example, adherence to admissions and assessment policies/procedures, external scrutiny by an appropriately qualified External Examiner and completion of an internal Annual Programme Monitoring and Review report. CASE requires that the External Examiner holds a postgraduate ultrasound qualification or Diploma in Medical Ultrasound (DMU) or equivalent and has at least two years appropriate clinical experience.

7.1 CASE Programme/Course Monitoring

CASE believes that Annual Programme Monitoring and Review reports (APMRs) act as a valuable source of qualitative and quantitative information regarding the design, development, monitoring and evaluation of programmes/courses. This evidence complements the factual information available through definitive programme/course documentation. APMR data may be used by CASE to provide an overview of standards being achieved, changing patterns of curricular provision and innovative practices.

Each August, institutions are required, as a condition of ongoing CASE accreditation, to send an annual report of their programme/course's recruitment, student outcomes and challenges to CASE using an electronic pro-forma.

The CASE APMR working group reviews the returns during the autumn semester and compiles an overall annual report for discussion at the spring CASE Committee meeting. The APMR Lead will contact individual institutions if any clarity or additional APMR information is required. CASE reserves the right to nominate a representative to visit institutions or programme/course faculties to fulfil its monitoring role. Each institution will ultimately receive a letter from the CASE APMR Lead regarding the satisfactory nature of their APMR report. Receipt and approval of the APMR report will be necessary for retention on the public CASE Directory of Accredited Courses.

Changes to programmes/courses that are necessary between review periods normally need CASE approval. Where approval for a change has been given by CASE, or a minor modification has been made, these should be clearly identified in the next CASE monitoring exercise return.

IMPORTANT: When undertaking a reaccreditation, CASE accreditors should request the relevant APMR Tracking Document from the CASE Co-ordinator in order to be aware of any areas of concern that need to be explored.

8. Accreditation Fees for Part-time Programmes/Courses

The current fees in force, including penalty fees, may be found on the CASE website at: www.case-uk.org/for-heis/apply-for-accreditation/accreditation-fees/

In addition, if a site visit is required, all costs shall be met by the education and training provider.

9. Frequently Asked Questions

Does the Course Leader need to have a postgraduate ultrasound qualification?

Yes. CASE requires that the Course Leader, or Deputy, holds a postgraduate ultrasound qualification or Diploma in Medical Ultrasound (DMU) and has at least two years appropriate clinical experience.

Do all members of the academic teaching team need to have a postgraduate ultrasound qualification?

No. CASE recommends that at least one other member of the academic teaching team holds an ultrasound qualification and has had relevant clinical experience.

Do members of the academic teaching team have to provide all of the necessary clinical expertise?

No. The relevant expertise, for full course delivery, should ideally be held across members of the Course Team; however, where specialist expertise is needed, relevant external/associate/sessional lecturers should be sourced from outside the institution.

Do all members of the academic teaching team need to have clinical currency?

No. CASE recommends that at least one member of the academic teaching team holds an ultrasound qualification and has an honorary or permanent contract with a local department in order to be able to regularly participate in ultrasound sessions.

Does the External Examiner need to have a postgraduate ultrasound qualification?

Yes. CASE requires that the External Examiner holds a postgraduate ultrasound qualification or Diploma in Medical Ultrasound (DMU) and has at least two years appropriate clinical experience.

What qualifications and experience are necessary to become a practice educator, a mentor or a clinical supervisor?

Student scans must be directly supervised by an appropriate practice educator/mentor/clinical supervisor who has appropriate qualifications and experience (i.e. PgC qualification and a minimum of 2-year post-qualification experience or level 2 Radiology), aligned with the student's breadth/remit of practice, as defined in their portfolio. Where there is a significant shortage of available practice educators/mentors/clinical supervisors, qualified staff with a minimum of 1-year post-qualification experience may act as the local practice educator/mentor/clinical

supervisor if at least one other member of the supervisory team meets the minimum requirement of 2 years' experience.

What qualifications and experience are necessary to become an external assessor, moderator or independent assessor?

The external assessor/moderator/independent assessor should be a senior professional with appropriate experience who is able to demonstrate on-going continual professional development (CPD) relevant to the area(s) of practice they are assessing. As the role involves ensuring appropriate standards are consistently met, it is advisable for the external assessor/moderator/independent assessor to have a minimum of three years clinical experience, plus appropriate training in relation to the summative assessment process.

Does a formal clinical assessment need to be included as part of the course?

Yes. CASE will <u>not</u> accredit Programmes/Courses that do not include a record of formative development and a formal endpoint assessment of clinical competence to practice. Theory-based short courses lasting from one to a few days are not eligible for CASE accreditation, but may apply directly for individual professional body endorsement.

How many clinical assessors are required when carrying out a summative clinical <u>assessment</u>?

Two internal clinical assessors are required for every summative clinical <u>assessment</u>. For first attempts, one <u>MUST</u> be the student's practice educator/mentor/clinical supervisor and the other must be a suitably qualified independent assessor who has not been heavily involved in the training of that student.

How many clinical assessors are required when carrying out a summative clinical reassessment?

For every summative clinical <u>re-assessment</u>, two assessors are required. One <u>MUST</u> be the student's practice educator/mentor/clinical supervisor and the other may be a member of the academic team staff or a trained assessor acting as a representative of the education provider. Both of these individuals must be qualified in the clinical application of ultrasound being studied/assessed.

Can simulation be used in isolation for summative clinical assessments?

No. Simulators provide a tool for giving feedback to the trainee during formative training, and may also have a limited role within a summative assessment; however, this should not substitute assessment in a real clinical situation that would include patient interaction, scanning, management of machine set-up and reporting.

Do summative clinical assessments have to be pass/fail?

Yes. CASE requires that clinical assessments must carry a Pass or Fail criterion, where Pass is a minimum standard that is equivalent to safe practice or baseline clinical competence.

Is external moderation of clinical assessments necessary?

Yes. The Programme/Course Team or Faculty need to demonstrate how external moderation will be applied for ensuring consistency of clinical assessments across different clinical departments.

How many assessment attempts can each student have?

CASE permits two attempts at each assessment (a first attempt and one reassessment).

Is the use of compensation or condonement permitted?

No. CASE does not permit the use of compensation or condonement in relation to failed modules or elements of assessment; all assessments must be passed.

When can students scan unsupervised?

Supervision is essential during the entire learning process for any CASE accredited award. In order to ensure patient safety, no student/trainee should be taking full responsibility for an ultrasound examination until they have achieved formal clinical competency i.e. until they have successfully completed their summative assessments and their award has been formally ratified by the appropriate examination board(s) for that clinical area of practice.

Are students qualifying from the Programme/Course CASE-Accredited?

No. The education provider is accredited by CASE to deliver the Programme/Course and issue appropriate award certificates and/or credits. Personal accreditation of an individual's ultrasound practice is not a process that falls within the remit of CASE.

How long does CASE accreditation for a Programme/Course last?

CASE accreditation for a Programme/Course will normally be for five years.

Why is it necessary for the Programme/Course Lead to complete and submit an APMR?

Receipt and approval of the APMR report is a CASE requirement for retention on the public CASE Directory of Accredited Courses.

CASE Learning Outcomes for Academic Levels 6 and 7

The learning outcomes are designed to support course teams in developing courses to meet CASE requirements and assist clinical departments determine the level of working for staff at these academic levels.

CASE Learning Outcomes						
Level 6	Level 7					
Со	re Skills					
HCPC Standards of Proficiency should be adapted for ultrasound and mapped to the programme/course and module learning outcomes (Appendix 5) http://www.hcpc-uk.org/publications/standards/index.asp?id=51	Core skills are expected, as part of the original qualification in health care for those progressing from a healthcare profession background					
Consideration of graduate attributes should be evident within the programme	Consideration of post-graduate attributes should be evident within the programme					
Clinical Education						
Carry out a medical ultrasound examination, interpret and analyse scan findings under appropriate supervision, within a defined scope of practice, safely and competently. Produce written reports, within a focused scope of practice, for ultrasound examinations undertaken	Carry out and supervise a range of complex medical ultrasound examinations and other appropriate actions, including interpretative, actionable reporting safely, competently and independently. Provide appropriate supervision, mentorship and leadership for less experienced colleagues					
Critically relate theory to practice in the clinical setting and nationally in order to contribute to patient diagnosis and management	Critically relate theory to practice in the clinical setting and nationally in order to contribute to patient diagnosis, management and service delivery					
Recognise the limitations of practice and the need to consult other senior colleagues. Identify sources with whom to consult in order to influence patient management	Recognise the limitations of practice and the need to consult other senior colleagues. Identify sources with whom to consult in order to influence patient management and change practice. Engage in audit and research, present findings and make recommendations as appropriate					

	T
Critically reflect on self to demonstrate continuing professional development within clinical practice	Critically reflect on self to demonstrate continuing professional development within clinical practice and assist others in developing skills locally and nationally
Function independently and as part of a team with critical awareness of scope i.e. extent and limitations of practice	Function independently and as part of a team, whilst developing collaborations and engaging in interprofessional team working, education and research
Enhance the service by engaging with service users and carers to promote and improve personalised care	Demonstrate originality and self- direction in tackling and solving problems, and engaging service users to promote personalised care
Science a	nd Technology
Demonstrate and apply a systematic knowledge and understanding of the physical and technological principles and processes of diagnostic ultrasound, describing their relevance to the ultrasound image and the equipment utilized	Demonstrate and apply a systematic and thorough knowledge and understanding of the physical and technological principles and processes of diagnostic ultrasound and show a comprehensive understanding of their relevance to the ultrasound image and the equipment utilized
Deploy appropriate techniques to effectively produce diagnostic ultrasound images and spectra, ensuring image quality is optimised and exposure to ultrasound is minimised according to clinical need	Deploy appropriate advanced techniques to effectively produce diagnostic ultrasound images and spectra, ensuring image quality is optimised and exposure to ultrasound is minimised according to clinical need. Critically evaluate images within a wide range of complex clinical settings, implement new technology and support colleagues in the use of advanced techniques
Demonstrate proficiency in recording ultrasound images and Doppler outputs	Demonstrate proficiency in recording ultrasound images and Doppler outputs, evidencing a comprehensive understanding of the findings in relation to clinical practice
Critically evaluate and discuss the safety issues related to diagnostic ultrasound to enable optimal use of the equipment within the current, internationally recognised recommendations for safe practice, actively reducing any hazard to patients and staff	Critically evaluate, analyse and debate the safety issues related to diagnostic ultrasound to enable optimal use of the equipment within the current, internationally recognised recommendations for safe practice, actively reducing any hazard to patients and staff
Deploy accurately established techniques of analysis and enquiry to evaluate the role of current ultrasound equipment, latest technology and associated quality assurance procedures for pertinent use to assist in the selection of new machines	Critically appraise current ultrasound equipment, latest technology and associated quality assurance procedures for pertinent use to identify and select new machines
Demonstrate a systematic understanding of graphical and numerical data commensurate with ultrasound practice	Develop a comprehensive understanding and utilise graphical and numerical data commensurate with ultrasound practice

Professional Issues								
Critically evaluate the emotional impact of the ultrasound examination on the client, carers and relevant healthcare professionals and meet HCPC core proficiencies	Critically evaluate the emotional impact of the ultrasound examination on the client, carers and relevant healthcare professionals. Demonstrate a critical awareness of clinical problems and identify potential solutions							
Devise and sustain arguments relating to national and local legal, ethical, professional and organisational principles that underpin diagnostic ultrasound practice	Critically analyse international, national and local legal, ethical, professional and organisational principles that underpin diagnostic ultrasound practice and assist in the leadership of change							
Demonstrate a conceptual understanding of the changing national and local health care needs of clients, patients, carers and organisations	Critically discuss the changing national and local healthcare needs of clients, patients, carers and organisations. Suggest improvements and ways to implement change							
Identify qualitatively and quantitatively the limitations and constraints associated with ultrasound imaging	Critically evaluate qualitatively and quantitatively the limitations and constraints associated with ultrasound imaging and suggest alternative solutions to improve service provision							
Demonstrate a systematic understanding of the need for life-long learning in medical ultrasound practice	Evaluate the need for life-long learning in medical ultrasound practice. Relate this to the development of self and others							
Develop negotiation and time management skills to achieve the core knowledge, skills and clinical practice learning outcomes for your level of practice. Mentor and teach others	Develop negotiation and time management skills to advance knowledge, skills and clinical practice to a higher level. Mentor and teach learners, support staff and other professionals through the development of relevant learning materials							
Critically reflect on the leadership roles needed within practice and personal contributions to leadership	Critically evaluate arguments and assumptions relating to the leadership roles needed within practice and develop leadership roles within the clinical setting and at a national level. Lead a team to ensure workload is delivered effectively							
Have due regard to patients' health status and co- morbidities, promoting healthy living	Develop, implement and review pathways of care, having regard to patients' health status and co-morbidities, promoting healthy living							
Critically evaluate the effectiveness of quality assurance procedures and engage in quality monitoring within the clinical setting	Critically evaluate the effectiveness of quality assurance procedures and quality management systems. Lead on local quality delivery management and implement change as required							

Clinical Topic							
Identify, evaluate and interpret normal and abnormal anatomy and pathophysiology relevant to the level and scope of clinical practice	Identify, evaluate and interpret normal and abnormal anatomy and pathophysiology relevant to advanced clinical practice. Assess patients and make reasoned decisions to initiate, continue, modify, suspend or cease ultrasound imaging examinations						
Synthesise and apply scientific, ergonomic and safety principles in order to identify, select and manipulate equipment	Critically synthesise and apply scientific, ergonomic and safety principles in order to identify, select and manipulate equipment						
Show a systematic understanding of and utilise all information from various sources to ensure the most appropriate examination is undertaken	Critically appraise and utilise all information from various sources to ensure the most appropriate examination is undertaken						
Analyse the needs of the patient to perform all aspects of the ultrasound examination safely and competently	Analyse the needs of the patient to perform all aspects of the ultrasound examination safely and competently, adapting to challenging circumstances						
Competently carry out ultrasound examinations and provide a report according to the evidence base, demonstrating an awareness of limitations within scope of practice	Competently carry out and independently report ultrasound examinations according to the evidence base, demonstrating an awareness of limitations within scope of practice						
Evaluate the ultrasound findings and, where necessary, arrange for a second opinion and/or arrange further investigations, following appropriate consultation, in line with local policies and practices	Critically evaluate the ultrasound findings and, where necessary, arrange, advise or undertake further investigations, following appropriate consultation, in line with local policies and practices. Provide support for less experienced staff						
Actively demonstrate proficiency in the interpretation and analysis of ultrasound appearances of organs and structures to reflect the clinical question raised and show an awareness of the limitations of level of competence. Provide a report with appropriate supervision	Actively demonstrate proficiency in providing interpretative, actionable reports for ultrasound examinations to reflect the clinical question raised. Provide support for less experienced staff						
Communicate clearly, effectively and appropriately with patients, carers and other healthcare professionals	Communicate clearly, effectively and appropriately with patients, carers and other healthcare professionals in challenging situations. Support on-going development of communication to improve service provision						
Demonstrate an understanding of the principles of problem solving within the ultrasound profession in order to resolve issues in practice and service delivery	Demonstrate a comprehensive knowledge and application of the principles of problem solving within the ultrasound profession in order to resolve issues in practice and service delivery						
Contribute to case management and service delivery by discussion and debate about patient diagnosis and prognosis	Contribute to case management and service delivery by discussion and debate at all levels in patient diagnosis, prognosis and management						

Plan, negotiate and manage own learning whilst

national level learning initiatives

demonstrating a team approach in support of self-

directed learning. Support and implement local and / or

Reflect on personal and professional practice in order to challenge, develop, maintain and enhance local professional standards in clinical ultrasound	Critically reflect on personal and professional practice in order to challenge, develop, maintain and enhance local and national professional standards in clinical ultrasound	
Scope	of Practice	
Demonstrate an awareness of how to take practitioner level skills to the next level, providing clear goals to work towards independent interpretative reporting practice	Demonstrate independent interpretative clinical reporting practice and show systematic and creative evidence of how the other domains of advanced practice are being used in the development of the profession	
Apply methods and techniques to review, consolidate, extend and apply knowledge and understanding of ultrasound. Initiate and carry out projects to improve the service locally	Deal with complex ultrasound issues both systematically and creatively, make sound judgements and communicate conclusions clearly to specialist and non-specialist audiences	
Synthesise, appraise and evaluate theory and research relevant to ultrasound practice in order to improve patient care. Judge the reliability, validity and significance of evidence to support conclusions and/or recommendations. Suggest reasons for contradictory data/results	Synthesise, appraise and critically evaluate complex theory and research relevant to advanced ultrasound practice in order to improve patient care and inform future practice and the profession. Judge the appropriateness of the methodologies used. Recognise and argue for alternative approaches	
Develop and enhance skills in critical reflection and evaluation of theoretical concepts in order to inform and enhance personal learning and professional medical ultrasound practice	Show comprehensive understanding and critical reflection and evaluation of theoretical concepts in order to inform and enhance personal learning and professional medical ultrasound practice	
Apply the methods and techniques learnt to assist with research projects and audit	Undertake research studies as part of a research team and present the findings locally and nationally. Autonomously plan and implement clinical audits	

Plan, negotiate and manage own learning whilst

developing a team approach in support of self-

directed learning

Documentation Requirements for Part-Time Programmes/Courses Accreditation / Reaccreditation

Please complete and submit this form to highlight which document and which section to find the relevant information. Try to be as specific as possible, so that your documents can be reviewed in a timely manner. Missing information or lack of clarity may lead to delays in your accreditation.

Documentation required	Provided (if not, justify why). N.B. may cause delay		Detail where the evidence is located (document / section / page)	
	Yes	No		
Programme/Course Outline and	d Docum	nentatio	n	
Programme/Course title includes the word 'ultrasound'				
Rationale for the development of the Programme/Course				
Business Case / Viability of the	Focused	Course		
Minimum / maximum numbers				
Senior management support				
Support from clinical partners				
Other facilities for clinical skills				
Programme/Course Development				
Internal Quality & Standards Programme/Course development meetings				
Programme/Course Specification				
Programme/Course academic level				
Part-time and/or full-time				
Minimum and maximum time for completion of Programme/Course				

Target Programme/Course attendants		
English language requirements		
Clinical placement requirements		
Number of credits (if any)		
Programme/Course title and code		
Learning outcomes (LOs)		
(must be relevant to CASE LOs)		
Assessments and weighting		
Indicative content		
Student Handbook		
Student-focused with clearly defined student journey		
'Standards for Sonographic Educ	cation').	w how CASE learning outcomes are met within the Programme/
Learning Outcomes (LOs) mapped to CASE LOs for the academic level of the Programme/Course		
Skills for Health Occupational Standards		
Quality Provision and Review		
External Examiner details		Name:
Must have recognised		Email address:
ultrasound qualification + current ultrasound education and / or clinical experience		Workplace:
Critical review of Programme/ Course and alignment with national trends in ultrasound education		

Programme/Course Team Experience and Range of Expertise				
Number of academic staff				
Staff/student ratio				
HEA fellowship / teaching qualifications of staff				
Staff CVs				
Guest lecturer / associate lecturer / visiting lecturer use				
Monitoring of teaching quality				
Administrative support				
Admissions Process and Inducti	on			
Entry criteria				
Selection process				
How are core skills identified?				
e.g. values based recruitment, respect and dignity, team working, the 6Cs				
Who is involved in the recruitment process?				
Are overseas applications accepted?				
How will occupational health clearance, DBS, etc be managed?				
Is it clear what students will be expected to pay for during the course? e.g. DBS, uniforms, travel, books				
Are extended days used?				
If so, how are applicants made aware of this?				
Is there a uniform policy?				
If a pre-application visit to a clinical department is			n/a □	

required, documentation for clinical staff to provide feedback to the education provider.		
Programme/Course induction		
Curriculum		
Programme/ Course delivery pattern		
Draft timetable		
Learning and teaching strategy		
Integration of academic education and clinical practice		
Curriculum content		
Assessment strategy and details e.g. timing of assessments, range of assessments, formative assessments, feedback and feed-forward opportunities		
Interprofessional learning opportunities		
Mechanisms for supporting students from diverse backgrounds / assessing initial learning needs (dependent on student's background knowledge and experience)		n/a □
Generic topics e.g. library skills, academic skills, communication, cultural competence, equality and diversity, professionalism		
Programme/Course reading list		
Educational innovations or resources used		
Student Support		
Academic support mechanisms		

Support for additional learning needs		
Identification of failing students / cause for concern process		
Process for supporting students and dealing with fitness to practise, professionalism, placement issues, etc		
Appeals processes		
Clinical		
How clinical departments are selected		
Clinical placement requirements		
Minimum placement hours meet CASE requirements		
Is funding available for placements? (placement tariff)		
If overseas applicants are accepted, what processes are in place to ensure parity of provision / quality of clinical education?		n/a □
Formal relationship agreements between clinical site and education provider		
Student support on placement		
Simulation or other opportunities for students to learn basic clinical skills		
Practice educators: Selection, training, monitoring, communication		
Independent assessors: Selection, training, monitoring, communication		

Guidance Document for Part-time MSc/PgD/PgC Programmes

How consistency of learning experience is monitored					
Proportion of time on clinical placements					
Minimum clinical attendance			n/a □		
Formative monitoring of clinical progress					
How clinical skills development is achieved throughout the Programme/ Course			n/a □		
Summative Clinical Assessments					
Assessment process (including who, when, where and documentation used)					
Number of cases examined?					
Range of cases examined?					
Moderation process					
Resit assessment process					

Course mapping to National Occupational Standards

10.4.1 Ultrasound Imaging CI.C.2019

All programme/ course accreditations need to include mapping to the National Occupational Standards CI.C.2019, as these are the minimum standards of anyone performing ultrasound at all levels. If the course includes interventional procedures the mapping for CI.I (see section 10.4.2) is also required.

A word template is available for the CI.C mapping. The module headings should be replaced with the programme/course title. If any aspects are not applicable to your programme/ course, justification should be provided.

	.2019 - Perform, interpret and report on ultrasound minations	Mapping to Programme/Course Aims & Learning Outcomes
Kno	wledge and Understanding	
1.	legal, organisational and policy requirements relevant to your role, the role of others in your organisation and the activities being carried out	
2.	the relevant national and local standards, guidelines, policies and procedures that are available and how and when they should be accessed	
3.	the importance of respecting individuals' culture, privacy, dignity, wishes, beliefs and decisions and how to do so	
4.	the limitations of your own knowledge and experience and the importance of operating within your scope of practice	
5.	preparation of the environment and equipment for ultrasound examinations	
6.	local policy and protocol for arranging and working with a chaperone	
7.	the physical processes involved in the production of an ultrasound image	
8.	the biological effects and potential risks associated with the use of ultrasound	
9.	the principles and applied knowledge of the Doppler effect and its clinical application in imaging and diagnosis	
10.	artefacts on images - their causes, value, limitations and minimisation strategies	

11.	the effect of sound propagation through different tissues	
12.	techniques to optimise the ultrasound image including position and preparation of the individual	
13.	the safe operation of ultrasound equipment	
14.	the potential for work-related disorders and how to minimise the risk	
15.	the importance of timely equipment fault recognition and local procedures for reporting these	
16.	image capture and recording devices	
17.	equipment age and capabilities, limitations and routine maintenance, including the quality control processes required by the operator	
18.	the function, specification and performance characteristics of ultrasound equipment and transducers	
19.	the clinical conditions appropriate for ultrasound examinations and the implications of other disease processes relevant to the area of study	
20.	the clinical justification of the examination request and an understanding of limitations	
21.	the contraindications associated with each investigation and the implications of proceeding with due consideration of related risks	
22.	the clinical implications of any allergy relevant to the examination	
23.	the importance of obtaining valid consent in line with national and local guidelines	
24.	methods of communicating difficult and complex information to individuals and key people	
25.	the importance of providing individuals and key people with opportunities to ask questions and increase their understanding	
26.	the information that should be given to individuals before, during and on completion of the examination	
27.	how to adapt communication styles, ask questions, and listen carefully in ways which are appropriate for the needs of the individual	
28.	normal anatomy and physiology, normal variants and anatomical relationships demonstrable by ultrasound	

	including knowledge of normal measurements and predisposing factors of the individual	
29.	how to acquire the best possible diagnostic images for a range of type and size of individual	
30.	recognition of abnormal anatomy and physiology demonstrable by ultrasound and the significance of such abnormality	
31.	the pathological processes and their appearance on ultrasound, relevant to the examination undertaken	
32.	manifestations of an individual's physical and emotional status	
33.	the impact of equipment controls on image quality and production, and safety indices	
34.	local procedures pertaining to the examination report	
35.	report writing techniques including medical terminology and standard abbreviations relevant to the examination	
36.	alternative imaging examinations, diagnostic and interventional techniques, and other relevant investigations	
37.	referral pathways, follow-up procedures and support resources for the individual	
38.	procedures relating to recording, collating and preparing appropriate information, documentation and images for transfer or storage according to local protocols	
39.	how to keep full, accurate and clear records in line with organisational procedures	
Perf	ormance criteria	
1.	apply standard precautions for infection prevention and control, and other appropriate health and safety measures	
2.	ensure all necessary preparations have been made by the individual and staff before starting the procedure	
3.	check and prepare the equipment required for the examination	
4.	ensure the environment is conducive to maintaining the privacy and dignity of the individual	

5.	check the identification and clinical history details before commencing the procedure in accordance with local policies and procedures	
6.	introduce yourself and other members of staff present during the examination	
7.	review any previous relevant imaging where available	
8.	enter the identification details of the individual into the ultrasound machine or, if previously entered, check for accuracy	
9.	obtain valid consent for the procedure in accordance with national and local guidelines	
10.	respect the individual's privacy, dignity, beliefs and decisions	
11.	confirm the appropriateness of key people before the examination in accordance with local guidelines	
12.	communicate with the individual / key people to facilitate their understanding of and co-operation with the examination	
13.	establish the individual's capacity to understand the procedure with the help of key people if necessary	
14.	clearly explain the procedure and possible outcomes, including risk, benefits and limitations	
15.	check for any contraindications for the proposed procedure and take appropriate action in response to identified risks	
16.	ensure the individual is in an appropriate and comfortable position for the examination, ensuring clothing is suitably adjusted to facilitate the examination	
17.	select and prepare the appropriate imaging technique, transducer and initial scanning parameters for the individual and the site under examination	
18.	apply sufficient acoustic coupling gel to the area to be examined to ensure optimal sound transmission	
19.	make adjustments to the equipment controls to optimise the image quality and recognise the appearance of ultrasound artefacts	
20.	ensure power levels and insonation time are kept to a minimum in accordance with national and international safety guidelines	

21.	acquire and interpret appropriate ultrasound images and produce a report in accordance with your scope of practice and in-line with national and local guidelines and protocols	
22.	observe and be aware of the individual's condition and well-being at all times and take appropriate action in response to any signs of discomfort and/or distress	
23.	take appropriate steps to minimise the risk of work-related disorders	
24.	maintain communication with the individual / key people throughout the procedure	
25.	record images with appropriate annotation and measurements according to national and local guidelines and protocols	
26.	extend the procedure as appropriate to confirm or supplement any initial findings	
27.	seek advice from appropriate others where you observe unexpected appearances or unusual findings that are outside your area of personal competence	
28.	provide the individual with information relating to the procedure and aftercare where necessary	
29.	explain the process for obtaining results	
30.	advise a referral to the appropriate person if an abnormality is observed which is likely to require further investigation or treatment, following national and local guidelines and protocols	
31.	record, collate and prepare appropriate information, documentation and images for transfer or storage according to local protocols	
32.	verify that the images have arrived/been stored according to local protocols	

Perform Image-Guided Procedures and/or Interventions CI.I.2019

If the programme/course includes interventional procedures, then this mapping for CI.I is also required. A word template is available for the CI.I mapping. The headings should be replaced with the programme/course title. If any aspects are not applicable to your programme/course, justification should be provided.

CI.I.201 Perforr	19 – m image guided procedures and/or interventions	Mapping to Programme/Course Aims & Learning Outcomes
Knowle	edge and Understanding	
1.	legal, organisational and policy requirements relevant to your role, the role of others in your organisation and the activities being carried out	
2.	the relevant national and local standards, guidelines, policies and procedures that are available and how and when they should be accessed	
3.	the national and local guidelines for acceptance of requests for image guided interventional procedures in your area of practice	
4.	the importance of obtaining valid consent in line with national and local guidelines	
5.	the principles and role of image guidance in your area of practice	
6.	the use of pre-intervention checklists and how they should be used according to local and national policies and procedures	
7.	how to keep full, accurate and clear records in line with organisational procedures	
8.	the limitations of your own knowledge and experience and the importance of operating within your scope of practice	
9.	the benefits and limitations of image guided interventional procedures in your area of practice	
10.	the role and importance of alternative, additional and complementary imaging techniques and investigations	
11.	clinical appropriateness of the examination request and the action to take when the request is not appropriate	
12.	how to undertake risk assessments for individuals prior to the procedure	
13.	the contraindications associated with each investigation and the implications of proceeding with due consideration of related risks	

14. the preparation of the individual, environment and equipment for image guided interventional procedures in your area of practice	
15. the importance of respecting individuals' culture, privacy, dignity, wishes and beliefs and decisions and how to do so	
16. the roles and responsibilities of other team members	
17. how to adapt communication styles, ask questions, and listen carefully in ways which are appropriate for the needs of the individual	
methods of communicating difficult and complex information to individuals and key people	
19. the importance of providing individuals and key people with opportunities to ask questions and increase their understanding	
20. the information that should be given to individuals before, during and on completion of the examination	
21. debrief procedures and how these should be used to ensure that any problems encountered during the procedure are recorded to inform future interventions	
22. the anatomy, physiology and pathology of the anatomical structures under investigation	
23. the pathophysiology of relevant disease processes	
24. the clinical findings and imaging appearances associated with normal and abnormal anatomical structures	
25. the safe use of local anaesthesia and other medicines used during the procedure or intervention	
26. aseptic techniques and the potential consequences of poor practice	
27. the importance of minimising any unnecessary discomfort of individuals undergoing interventional procedures, and how to do so	

6.	check the identification details before commencing the interventional procedure in accordance with local policies and procedures	
7.	obtain valid consent for the procedure in accordance with national and local guidelines	
8.	communicate with the individual / key people to facilitate their understanding of and co-operation with the examination	
9.	establish the individual's capacity to understand the procedure with the help of key people if necessary	
10.	clearly explain the procedure and possible outcomes, including risk, benefits, limitations and alternatives	
11.	respect the individual's privacy, dignity, beliefs and decisions	
12.	review the clinical history for factors which might contraindicate the procedure	
13.	assess the individual for contra-indications to any medicines to be used in the examination and for any relevant allergies, and take appropriate action	
14.	ensure appropriate and recent imaging is available and assess relevant images and information prior to performing the procedure to confirm the location of the region/structure(s) of interest	
15.	make an assessment of the individual's emotional needs and respond appropriately	
16.	ensure that relevant checklists are completed prior to the procedure in line with local and national policies to highlight any potential problems before the procedure begins	
17.	select the correct equipment for the procedure according to national and local guidelines and protocols	
18.	take appropriate precautions to ensure a clean or aseptic technique as required	
19.	ensure the individual is in an appropriate position and is as comfortable as possible for the procedure	
20.	administer local anaesthetic if required according to local and national guidelines	

21. take appropriate steps to minimise the risk of work-related disorders	
22. ensure the procedure is carried out correctly and in accordance with local policies and procedures	
23. where required by the procedure, obtain any samples and label containers according to local guidelines and protocols	
24. ensure all images are acquired, stored and transferred in line with local guidelines and protocols	
25. ensure dressings are applied where appropriate after the procedure	
26. ensure immediate post-procedure observations are carried out according to national and local guidelines and protocols	
27. recognise and respond to a deterioration in the individual's clinical condition in line with relevant national and local guidelines and protocols	
28. provide the individual with information relating to the procedure and aftercare where necessary	
29. explain the process for obtaining results	
30. document the procedure according to national and local guidelines and protocols	

References:

- 1. Skills for Health (2019) CI.C.2019 Perform, interpret and report on ultrasound examinations. [Online]. Available: https://tools.skillsforhealth.org.uk/competence/show/html/id/4302/
- 2. Skills for Health (2019) CI.I.2019 Perform image guided procedures and/or interventions [Online]. Available: https://tools.skillsforhealth.org.uk/competence/show/html/id/4307/

Example Formative Clinical Assessment Form

CLINICAL COMPETENCY OBJECTIVES – ULTRASOUND MANAGEMENT

Student's Name:				Registration Number:					
Patient 1 Clinical History:									
Patient 2 Clinical History:									
Patient 3 Clinical History:									
Patient 4 Clinical History:									
√ the appropriate box ONLY if the student CORRECTLY carries out the competency.									
Clinical competencies marked with an * will lead to an overall technical fail if not passed for all five patients.									
Students MUST achieve a ✓ in at least 60 of the non-* boxes, with no less than three ✓ per competency (row).									
Clinical Competency Objective	P1	P2	Р3	P4	P5	Co	omments		
Prepared the room appropriately									
Collated all relevant information									
Understood the implications of the request									
Communicated and liaised, where necessary,									
with the appropriate personnel both before and after the examination									
Introduced themselves, and appropriate personnel, to the patient									
Checked the patient's identity and entered									
the patient's details correctly onto the									
equipment and computer system *									
Explained the procedure to the patient and									
obtained informed consent *									
Presented themselves in a professional and									
ethical manner during the examination									
Advised the patient of the correct									
information before leaving the department									
Worked and communicated effectively with the Clinical Supervisor									
On completion of the summative				•					
assessment, please mark as PASS or FAIL	PA	SS			FA	IL			

CLINICAL COMPETENCY OBJECTIVES – ULTRASOUND EQUIPMENT

Clinical Competency Objective	P1	P2	Р3	P4	P5	Co	omments
Correct identification of patient entered onto the ultrasound ID package *							
the ditrasound in package							
Demonstrated appropriate selection and use							
of equipment controls before and during the examination *							
Demonstrated understanding of the							
advantages and limitations of the equipment							
Proof of knowledge and understanding of local							
Quality Assurance programme with relevant documentation							
Demonstrated understanding and justification							
for use of equipment controls e.g.							
1. Output power selection							
2. Frequency selection							
3. Time gain control							
4. Overall gain control							
 Position of focal zone(s) Magnification/zoom 							
7. Colour and power Doppler *							
Demonstrated appropriate and correct use of measurement package *							
Understood the ALARA principle; awareness of							
safety indices and how to use the equipment controls to reduce exposure to ultrasound *							
Correct anatomical identification and correct							
anatomical side identification (L and R) on images *							
Appropriate understanding and use of image							
recordings resulting in high quality images being stored as a record of the examination							
Demonstrated adequate care of the							
equipment with regard to physical damage							
On completion of the summative assessment,		<u> </u>					
please mark as PASS or FAIL	PA	NSS			FAI	IL	

CLINICAL COMPETENCY OBJECTIVES – ULTRASOUND TECHNIQUE

Clinical Competency Objective	P1	P2	Р3	P4	P5	Comments
Checked that appropriate preparation has						
been carried out						
Followed departmental protocol when						
carrying out the examination						
Demonstrated an understanding of ergonomics by positioning themselves and the						
patient sensibly during the examination *						
Demonstrated and identified the relevant						
anatomy and pathology during the						
examination *						
Demonstrated correct use of the measurement calipers *						
·						
Recorded relevant images at appropriate						
points throughout the examination						
Demonstrated the ability to acquire and						
record accurate colour or power Doppler						
images *						
Discussed differential diagnoses and took appropriate action as per departmental						
guidelines *						
Drew the correct conclusions from their						
observations *						
Constructed and recorded an accurate written						
clinical report *						
Gave care and attention to the patient's safety by following departmental health and						
safety and infection control guidelines/procedures						
· ·						
On completion of the summative assessment, please mark as PASS or FAIL	DΛ	SS			FAI	.
	FA	.55			FAI	•
COMMENTS:						
CLINICAL SUPERVISOR (PRINT NAME):						
CLINICAL SUPERVISOR'S SIGNATURE:						DATE:

Example Summative Clinical Assessment Form

To be completed jointly by the Clinical Supervisor and Independent Assessor

CLINICAL COMPETENCY OBJECTIVES – ULTRASOUND MANAGEMENT

Student's Name:	lent's Name: Registration Number:						
Patient 1 Clinical History:							
Patient 2 Clinical History:							
Patient 3 Clinical History:							
Patient 4 Clinical History:							
Patient 5 Clinical History:							
✓ the appropriate box ONLY if the student CORRECTLY carries out the competency. Clinical competencies marked with an * will lead to an overall technical fail if not passed for all five patients. Students MUST achieve a ✓ in at least 60 of the non-* boxes, with no less than three ✓ per competency (row).							
Clinical Competency Objective	P1	P2	Р3	P4	P5	Co	omments
Prepared the room appropriately							
Collated all relevant information							
Understood the implications of the request							
Communicated and liaised, where necessary, with the appropriate personnel both before and after the examination							
Introduced themselves, and appropriate personnel, to the patient							
Checked the patient's identity and entered the patient's details correctly onto the equipment and computer system *							
Explained the procedure to the patient and obtained informed consent *							
Presented themselves in a professional and ethical manner during the examination							
Advised the patient of the correct information before leaving the department							
Worked and communicated effectively with the Clinical Supervisor							
On completion of the summative assessment, please discuss the outcome and mark as either a PASS or FAIL	PASS					FAIL	

CLINICAL COMPETENCY OBJECTIVES – ULTRASOUND EQUIPMENT

Clinical Competency Objective	P1	P2	Р3	P4	P5	Comments
Correct identification of patient entered onto						
the ultrasound ID package *						
Demonstrated appropriate selection and use of equipment controls before and during the examination *						
Demonstrated understanding of the advantages and limitations of the equipment						
Proof of knowledge and understanding of local Quality Assurance programme with relevant documentation						
Demonstrated understanding and justification for use of equipment controls e.g. 1. Output power selection						
2. Frequency selection3. Time gain control						
 Overall gain control Position of focal zone(s) 						
 6. Magnification/zoom 7. Colour and power Doppler * 						
Demonstrated appropriate and correct use of measurement package *						
Understood the ALARA principle; awareness of safety indices and how to use the equipment controls to reduce exposure to ultrasound *						
Correct anatomical identification and correct anatomical side identification (L and R) on images *						
Appropriate understanding and use of image recordings resulting in high quality images being stored as a record of the examination						
Demonstrated adequate care of the equipment with regard to physical damage						
On completion of the summative assessment, please discuss the outcome and mark as either a PASS or FAIL	PA	SS			FAI	L

CLINICAL COMPETENCY OBJECTIVES – ULTRASOUND TECHNIQUE

Clinical Competency Objective	P1	P2	P3	P4	P5	Co	omments
Checked that appropriate preparation has been carried out							
Followed departmental protocol when carrying out the examination							
Demonstrated an understanding of ergonomics by positioning themselves and the patient sensibly during the examination *							
Demonstrated and identified the relevant anatomy and pathology during the examination *							
Demonstrated correct use of the measurement calipers *							
Recorded relevant images at appropriate points throughout the examination							
Demonstrated the ability to acquire and record accurate colour or power Doppler images *							
Discussed differential diagnoses and took appropriate action as per departmental guidelines *							
Drew the correct conclusions from their observations *							
Constructed and recorded an accurate written clinical report *							
Gave care and attention to the patient's safety by following departmental health and safety and infection control guidelines/procedures							
On completion of the summative assessment, please discuss the outcome and mark as either a PASS or FAIL	PΑ	SS			FAI	L	
CLINICAL SUPERVISOR (PRINT NAME): CLINICAL SUPERVISOR'S SIGNATURE: DATE:							
INDEPENDENT ASSESSOR (PRINT NAME INDEPENDENT ASSESSOR'S SIGNATURE	-						DATE:

Example of an Audit of Clinical Placement Form

AUDIT OF PROPOSED CLINICAL PLACEMENT					
Name of student:	Programme/Course Title:				
PRACTICE EDUCATOR / MENTOR / CLINICAL SU	PERVISOR (CV must be included along with this form)				
The person fulfilling this role must have a wide range of experience and hold a recognised ultrasound qualification in the area of practice being studied by the student or trainee, unless this is a new area of practice or an extended role such as interventional ultrasound or point of care ultrasound. It is advisable that the practice educator/mentor/clinical supervisor has a minimum of two years current clinical experience.					
Name:	Job / Role Title:				
Email:	Ultrasound Qualification(s) and date(s):				
Phone:					
EXTERNAL ASSESSOR / EXTERNAL MODERATOR	2 / INDEPENDENT ASSESSOR				
The person fulfilling this role should be a senior professional with extensive appropriate experience who is able to demonstrate on-going continual professional development (CPD) relevant to the area(s) of practice they are assessing. As the role involves ensuring appropriate standards are consistently met, it is advisable for the external assessor/moderator/independent assessor to have a minimum of three years current clinical experience.					
Name:	Job / Role Title:				
Email:	Ultrasound Qualification(s) and date(s):				
Phone:					
ULTRASOUND DEPARTMENT OR CLINICAL DEPARTMENT/UNIT PROVIDING THE CLINICAL PLACEMENT					
Name:					
Address:					
Telephone Number:					

Number of US rooms used for the Programme/ Course examinations:						
US equipment used for the Programme/Course examinations:						
Number of dedicated Programme/Course lists per week:						
Types of Programme/Course examinations performed (e.g. different referral sources) (please list):						
Number of staff performing the Programme/	Radiologists:					
Course examinations:	Sonographers:					
	Others (please identify):					
How stable is the Ultrasound Department/Unit in terms of staffing levels?						
Do you currently have any other ultrasound students and, if so, how many?						
AGREEMENT						
I agree that the Department/Unit will provide the following:						
 A minimum of 4 dedicated sessions per week of supervised clinical practice covering an appropriate range of relevant Programme/Course ultrasound examinations; 						
 A Practice Educator/Mentor/Clinical Supervisor for the student for the duration of the Programme/Course and to assess the student's clinical competence at the end of the Programme/Course; 						
 An External Assessor/External Moderator/Independent Assessor to assess the student's clinical competence at the end of the Programme/Course. 						
LINE MANAGER						
Name:	Email:					
Signature:	Phone:					
Date:						

Additional Guidance for Accreditors

Each new programme, as well as all existing accredited programmes, are required to undergo scrutiny from a team of CASE accreditors both before initial approval (new programmes) and re-approval (current programmes).

This guidance is provided to help CASE Accreditors when carrying out an accreditation and should be read in conjunction with Section 5 – The Accreditation Process.

It should be noted; however, that every course is different, and it is not expected that the exact process will be followed every time. Variations are likely to be based on individual circumstances, particularly if there are concerns or problems.

If the team of accreditors feel there are significant concerns regarding the quality of the programme documentation, particularly if they feel it is completely inadequate, then they are advised to contact a CASE committee member immediately for advice.

Preparation and Process

- 1. A Lead Accreditor, Co-Accreditor and a Shadow Accreditor are assigned to carry out the review and the Programme Leader is informed of their names and contact details.
- 2. An initial meeting (usually virtual) of accreditors should be held to discuss the documentation provided, potential conditions, recommendations and commendations prior to the event, organised by the Lead Accreditor.
- 3. Prior to an accreditation being carried out, the following documents need to be obtained, read and annotated by the CASE accreditors:
 - Final Lead Accreditor's report from the previous accreditation event (where relevant);
 - Original and updated programme documentation from the previous accreditation event (where relevant);
 - External Examiner's Reports for the previous two years;
 - Most recent internal quality report generated by the Programme Team;
 - CASE Annual Programme Monitoring Reports (APMRs) for the previous two years, including the relevant APMR Tracking Documents which will highlight any concerns;
 - New accreditation/reaccreditation application form which must include contact details for the Programme Team and a named contact within the education provider's Quality and Standards Team (or equivalent).
- 4. An initial virtual meeting, organised by the Lead Accreditor, takes place between the accreditors to discuss the documentation provided, generate lines of questioning and identify potential conditions, recommendations and commendations.

- 5. The Programme Team and Lead Accreditor are encouraged to hold at least one informal meeting prior to the event to discuss the programme and to allow the Lead Accreditor to offer advice and guidance to the programme team.
- 6. Provisional, collated feedback from the accreditors may be sent to the Programme Leader one week prior to the event if there are extensive comments or queries requiring detailed explanation. The Lead Accreditor would normally facilitate this.
- 7. The Programme Leader then liaises with the Lead Accreditor and the education provider's Quality and Standards Team (or equivalent) to organise the event. If a site-visit or virtual contact with staff/students is required, a date will need to be agreed for the event and the education provider should confirm arrangements for calls, travel and accommodation as required by the accreditors. The education provider must pay the Lead Accreditor's and Co-Accreditor's expenses if a face-to-face visit is required; however, from 2023 onwards, CASE proposes that most events will be virtual.
- 8. Ideally, the CASE accreditation event should be synchronised with the education provider's approval event so that stakeholders, students and staff only need to attend one event. It also facilitates open discussion between the interested parties and results in a single set of minutes. If the events cannot be synchronised, the CASE accreditation event should be held prior to the education provider's approval event.
- 9. The event agenda is agreed by all parties and may include an opportunity to inspect the facilities. A narrated virtual tour or photographs may be used for this purpose instead of a face-to-face visit.
- 10. At this point, it is the responsibility of the Co-Accreditor to organise the virtual de-brief meeting, which should be held within two weeks following the date of the event.
- 11. The education provider must provide an administrator (secretary) to take minutes at the meeting.
- 12. The Chair of the meeting should share the education provider's provisional conditions, recommendations, commendations with the Programme Team and CASE accreditors.
- 13. Provisional CASE recommendations, conditions and commendations may be discussed at the end of the meeting; however, this discussion should ideally be delayed until after the de-brief meeting has taken place with members of CASE Committee.
- 14. The secretary to the meeting should share the minutes with the Programme Team and CASE accreditors via email as soon as possible following the event.
- 15. A virtual meeting, organised by the Lead Accreditor, takes place between the accreditors to discuss the responses provided by the Programme Team and to identify potential conditions, recommendations and commendations.
- 16. The Lead Accreditor writes the draft report (using the relevant CASE template) detailing the provisional recommendations, conditions and commendations is sent to the Programme Team from the Lead accreditor for the team's response once the review is complete.
- 17. If any conditions and/or recommendations need to be met, the Programme Leader must respond within one-month (unless otherwise agreed by the Programme Team and CASE Accrediting Team).
- 18. The accreditors review the evidence provided in the revised documentation and confirm when the conditions have been satisfactorily met.

- 19. A final report is completed, signed by the Lead Accreditor, Co-Accreditor and Shadow Accreditor and sent to the CASE Co-Ordinator.
- 20. Following a review of the report by the CASE Committee, further clarifications may be sought; otherwise a letter of confirmation on the accreditors' recommendation will be issued by the Committee Chair.

Hints and Tips

- Review the plans laid out in the original course documentation to see whether the course is being delivered as expected.
- Review previous APMR submissions to see whether any issues have arisen and find out how the Programme Team are dealing with them.
- Ensure any conditions implemented at the time of the original accreditation are still being upheld.
- Determine whether the recommendations from the original accreditation have been implemented and whether, in the light of experience, they are more/less relevant.
- Check on the quality of the clinical placements, mentors, assessors and assessment processes.
- Scrutinize the student numbers and pass/fail rates. If there are any inconsistencies, such as high failure rates or indeed very high pass rates, establish how the Programme Team are monitoring and, if necessary, managing the situation.
- Talk to students about their experience of the course, including the positive and negative aspects. What would they change? Do they have any ideas or issues? Cover any items that have already been raised as a concern elsewhere. Check where/how the student voice is heard.
- Talk to staff about how the Programme is progressing. What are the strengths and weaknesses? Pick up on the outcomes of the APMR and EE reports.
- When the Lead Accreditor is asking questions, the Co-Accreditor and Shadow Accreditor need to be making notes of the Education Provider's/Programme Team's responses. This is vital.
- When the Co-Accreditor is asking questions, the Lead Accreditor and Shadow Accreditor need to make notes of the Education Provider's/Programme Teams responses. This is vital.
- When the Shadow Accreditor is asking questions, the Lead Accreditor and Co-Accreditor need to be making notes of the Education Provider's/Programme Team's responses. This is vital.

Contributors and Acknowledgements

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CASE MEMBER ORGANISATIONS

British Medical Ultrasound Society (BMUS)

British Society of Echocardiography (BSE)

Chartered Society of Physiotherapy (CSP)

Institute of Physics and Engineering in Medicine (IPEM)

Royal College of Podiatrists (RCPod)

Society and College of Radiographers (SCoR)

Society for Vascular Technology of Great Britain and Northern Ireland (SVT)