



ECHO13006 Adult Echocardiography

Term 1 - 2023

Profile information current as at 20/04/2024 04:06 pm

All details in this unit profile for ECHO13006 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

Accurate analysis and assessment of complex cardiovascular disease and their pathological processes is a core part of all echocardiographic examinations. In preparation for clinical placement you will attain the knowledge and skills needed to analyse complex cardiovascular disease. This will include consideration of the echocardiographic generated images and assessment measures, haemodynamic calculations, pressures and valve prosthetics. You will apply knowledge to practical echocardiographic tasks in the laboratory setting, and utilise simulated clinical scenarios and case studies to analyse diagnostic data to provide differential diagnoses within an ethical framework of best practice and patient safety. You will demonstrate the professional knowledge, attitude and skills required to perform a complete echocardiographic study within a time frame related to clinical expectations. This unit prepares you for the clinical environment using the Assessment of Readiness for Clinical tool (ARC) in conjunction with other assessment tasks. Attendance at practical activities is a requirement of this unit.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

Pre-requisites MPAT12001 Medical Pathophysiology AND ECHO12003 Principles of Cardiac Assessment OR ECHO12008 Doppler Echocardiography AND ECHO12005 Cardiac Clinical Unit 2

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 1 - 2023

- Brisbane
- Perth
- Sydney

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 12-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **In-class Test(s)**

Weighting: 50%

2. **In-class Test(s)**

Weighting: 50%

3. **Practical Assessment**

Weighting: Pass/Fail

4. **Performance**

Weighting: Pass/Fail

5. **Reflective Practice Assignment**

Weighting: Pass/Fail

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback

items were identified and recommendations were made.

Feedback from Student and Unit Teaching Evaluation

Feedback

Online tests in prior CV69 units are conducted remotely. Some students did not fully appreciate the requirement for closed book conditions in this third-year unit.

Recommendation

Echocardiography requires a high level of independent thinking and analytical interpretation, and requires the ability to immediately access a vast pool of foundational knowledge, particularly in urgent clinical situations. Proper comprehension and recall of foundational concepts is vital for scaffolding of skills before extended clinical placements in follow-on units of the CV69 course. Open book tests cannot assess the recall and comprehension necessary at this level of study, immediately prior to clinical placement. For this reason, ECHO13006 tests will continue to be scheduled in-class and under closed book conditions. Many academic lecturers within Echocardiography have expressed a view that closed book conditions should be introduced earlier than third year and this will be discussed further, prior to 2023 unit deliveries.

Feedback from Student and Unit Teaching Evaluation

Feedback

Some students did not appreciate the requirement to recall equations, and felt that a list of equations should have been provided for reference in the first in-class test.

Recommendation

While equations are often programmed into industry software, all practising sonographers have learned the theory behind common equations and understand their application. Recall of equations during the ECHO13006 test is necessary to assess understanding of (sometimes non-standard) requisite parameters and application to specific pathologies. As such, students will be required to recall and apply equations in future deliveries.

Feedback from Student and Unit Teaching Evaluation

Feedback

Some students felt that on-campus time with tutors was insufficient and that more time should be afforded for explanation of concepts.

Recommendation

Weekly lab sessions provide students with an opportunity to apply concepts taught in lectures. Lab schedules for QLAB are carefully considered so that content follows on from the previous week, to afford students the opportunity to learn theoretical concepts and attend tutorials before their lab session. This approach will be made clearer to students in future deliveries. Scanning sessions are inevitably constrained by equipment and staffing availability and are scheduled to enable staff to support students as equitably as possible across campuses.

Feedback from Student and Unit Teaching Evaluation

Feedback

The revised rubrics for practical assessments were unfamiliar and some students found assessment requirements difficult to understand.

Recommendation

Redevelopment of the practical assessment rubric was necessary, to move from a negative-marking approach to a competency-led approach. Students may have been unfamiliar with the competency framework and where their skill progression should sit within this context. The industry-recognised competency framework for sonographers will be introduced to students early on in the CV69 course in future deliveries— this will likely improve student comprehension of unit expectations and assessment criteria.

Feedback from Student and Unit Teaching Evaluation

Feedback

Students felt they would have benefitted from additional time and lab access between the mock and final practical assessments.

Recommendation

Given student numbers, staffing and equipment constraints, optimal lab scheduling is always difficult. The lab delivery schedule will be reviewed close to term commencement to ensure optimal lab deliveries across campuses. This will potentially provide more time or additional sessions between the mock and formal practical assessments.

Feedback from Student and Unit Teaching Evaluation

Feedback

Students appreciated the commitment and care demonstrated by tutors.

Recommendation

Pastoral care is recognised as an important aspect of student interaction and will continue to be a strong focus within the CV69 teaching team.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Differentiate between the aetiology, pathophysiology and echocardiographic assessment process associated with a variety of cardiovascular disease processes
2. Perform and interpret measurements and advanced haemodynamic calculations applied to 2D, colour and spectral Doppler derived echocardiographic measures
3. Differentiate prosthetic valve and valvular surgical intervention functionality and disease processes
4. Analyse case-based clinical information to formulate differential diagnoses and plan patient management
5. Perform an echocardiographic examination efficiently and effectively
6. Display professional behaviour, teamwork and communication skills consistent with safe practice
7. Apply reflective feedback to professional practice improvement.

Linked to National and International Standards

1. ASAR Accreditation Standards for Cardiac Sonography - critical practice Unit 8 - Cardiac, Foundation units of competence - 1 - 5.
2. European Association of Cardiovascular Imaging Core Syllabus
3. American Registry for Cardiac Sonography Core Syllabus

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes						
	1	2	3	4	5	6	7
1 - In-class Test(s) - 50%	•	•	•	•			
2 - In-class Test(s) - 50%	•	•	•	•			
3 - Practical Assessment - 0%		•			•		
4 - Performance - 0%						•	
5 - Reflective Practice Assignment - 0%							•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Communication	•	•	•	•	•	•	•
2 - Problem Solving	•	•	•	•	•	•	•
3 - Critical Thinking	•	•	•	•	•	•	•
4 - Information Literacy	•	•	•	•			•
5 - Team Work						•	•
6 - Information Technology Competence	•	•	•	•	•		
7 - Cross Cultural Competence						•	
8 - Ethical practice					•	•	•
9 - Social Innovation							
10 - Aboriginal and Torres Strait Islander Cultures							

Textbooks and Resources

Textbooks

ECHO13006

Prescribed

A Sonographer's Guide to the Assessment of Heart Disease

Edition: 1st (2014)

Authors: Bonita Anderson

MGA Graphics

BRISBANE , QUEENSLAND , AUSTRALIA

ISBN: 9780992322205

Binding: Hardcover

ECHO13006

Prescribed

Basic to Advanced Clinical Echocardiography

Edition: 1st (2020)

Authors: Bonita Anderson, Margaret M. Park

Wolters Kluwer

USA

ISBN: 9781975136253

Binding: eBook

ECHO13006

Supplementary

ASE's comprehensive echocardiography

Edition: 2nd (2016)

Authors: Lang, Goldestein, Kronzon, Khandheria, Mor-avi

Elsevier Saunders

Philadelphia , PA , USA

ISBN: 978-0-32326011-4

Binding: Other

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing style: [Vancouver](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Tarryn Cremin Unit Coordinator

t.cremin@cqu.edu.au

Schedule

Week 1 - 06 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Aortic and Pulmonary Stenosis See e-Reading list

Lab Agreement and Consent Form due Wednesday 8th March, 12pm AEST

Week 2 - 13 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
Mitral and Tricuspid Stenosis	See e-Reading list	

Week 3 - 20 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
Valvular Regurgitation	See e-Reading list	

Week 4 - 27 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
Prosthetic Heart Valves	See e-Reading list	

Week 5 - 03 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
Hypertrophic Cardiomyopathy	See e-Reading list	

Vacation Week - 10 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 17 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
Cardiomyopathies	See e-Reading list	In-class Test 1 Wednesday 19th April at 9am local campus time

Week 7 - 24 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
Pericardial Heart Disease	See e-Reading list	

Week 8 - 01 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
Pericardial Tamponade and Constrictive Pericarditis	See e-Reading list	

Week 9 - 08 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
Endocarditis, Cardiac Transplantation	See e-Reading list	

Week 10 - 15 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
Systemic Disorders with Cardiac Manifestations 1	See e-Reading list	

Week 11 - 22 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
Systemic Diseases with Cardiac Manifestations 2	See e-Reading list	

Week 12 - 29 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Revision

Echocardiographic Skills Assessment scheduled week 12

Professional Behaviour and Lab Documentation due Friday 2nd June, 5pm AEST

Formative Feedback and Self-Reflection due Friday 2nd June, 5pm AEST

Review/Exam Week - 05 Jun 2023

Module/Topic	Chapter	Events and Submissions/Topic
		In-class Test 2 Tuesday 6th June at 9am local campus time

Exam Week - 12 Jun 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Term Specific Information

The unit coordinator for ECHO13006 Adult Echocardiography is Tarryn Cremin. The most efficient and preferred method of contacting Tarryn is via the Q&A forum located on the unit Moodle site. If the query is personal in nature, please contact Tarryn directly via email (t.cremin@cqu.edu.au) or phone (02 9324 5034). Tarryn works from the Sydney campus and is available Monday to Thursday.

Other academic staff may provide presentations and host tutorials as part of this unit's delivery. Contact details for other academic staff can be found on the Moodle site.

Lectures are used to present core information for weekly study, outlining the main theories and principles of the topic under consideration. Weekly revision material is provided and should be attempted to assist in preparation for the in-class tests and other assessments. Note that no new lecture material will be presented during week 12 of term as this week will be used to prepare for the final in-class test.

ECHO13006 tutorials focus on discussing the weekly content including revision questions, developing echocardiographic image interpretation skills, and contextualisation of key concepts in preparation for related assessments and clinical placement. Live Zoom tutorials provide an opportunity for discussion and interaction with other students and the tutor. It is important students take advantage of these interactive sessions and participate fully in order to broaden knowledge and experience with the course material. Any questions posted to the Q&A forum or emailed to the unit coordinator will be used to guide tutorial content.

Note: Links required for accessing live Zoom tutorials are provided on the Moodle site under the Virtual Classes tile. Tutorials are recorded for educational purposes and these recordings may be uploaded and appear on Echo360, Moodle, YouTube and Microsoft Teams. Students who do not wish to be recorded are advised to turn off their webcam, audio or both during Zoom sessions. Participation will signify consent to the recording and publication for educational purposes.

Please ensure you review the 'Welcome' video and 'Breakdown of Assessments' video, available on the Moodle site, for further unit specific information.

Assessment Tasks

1 In-class Test 1

Assessment Type

In-class Test(s)

Task Description

This test will be an online test performed in-class with closed book conditions at the campus of your enrolment. It will examine all content from **weeks 1 to 5 inclusive**.

The test will examine the theory and application of content and haemodynamic concepts taught in lectures, discussed in tutorial delivery and practised in the simulated laboratory setting. Questions may require you to perform mathematical calculations, interpret patient data, illustrate concepts or provide explanations and discussions. Questions similar in style to those found in the in-class test are provided in weekly revision material on the Moodle site. Exemplar questions will also be discussed during the tutorial and laboratory sessions, to help prepare for this assessment task.

This in-class test will assess the students' ability to:

- differentiate and discuss the aetiology, pathophysiology and echocardiographic assessment processes associated with a variety of cardiovascular diseases;
- analyse case-based clinical information to formulate differential diagnoses;
- interrogate measurements supplied;
- accurately apply appropriate haemodynamic calculations and interpret resulting values;
- demonstrate clinical reasoning;
- use appropriate terminology and descriptors as well as grammar and spelling.

This test will be **180 minutes** duration and comprises 50% of the final unit grade. You will require a simple calculator (not a scientific calculator) for this test.

Assessment Due Date

Week 6, Wednesday 19th April at 9am local campus time.

Return Date to Students

Results will be available within two weeks of the due date. The online test question pool in its entirety will not be released to students.

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

This test will be conducted at campus of enrolment, under examination conditions as detailed in the CQU Assessment Procedures. The test must be performed at the timetabled date and time. As per CQU Assessment Procedures, this task is to be completed during the defined period. There is no opportunity to apply a late penalty.

If you arrive late, you may enter the test room up to 30 minutes after the start of the test; you will still be required to submit your test at the preset completion time. You will not be allowed entry more than 30 minutes after the test starts. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero (0) for the assessment if you have not completed it by the scheduled date and time.

The allocated number of marks for each question is indicated on the Moodle interface. Marks are allocated based on accuracy, depth and breadth of the required response.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

In-class Test 1 to be performed at campus of enrolment.

Learning Outcomes Assessed

- Differentiate between the aetiology, pathophysiology and echocardiographic assessment process associated with a variety of cardiovascular disease processes
- Perform and interpret measurements and advanced haemodynamic calculations applied to 2D, colour and spectral Doppler derived echocardiographic measures
- Differentiate prosthetic valve and valvular surgical intervention functionality and disease processes
- Analyse case-based clinical information to formulate differential diagnoses and plan patient management

2 In-class Test 2

Assessment Type

In-class Test(s)

Task Description

This test will be an online test performed in-class with closed book conditions at the campus of your enrolment. It will examine all content from **weeks 6 to 12 inclusive**.

The test will examine the theory and application of content and haemodynamic concepts taught in lectures, discussed in tutorial delivery and practised in the simulated laboratory setting. Questions may require you to perform mathematical calculations, interpret patient data, illustrate concepts or provide explanations and discussions. Questions similar in style to those found in the in-class test are provided in weekly revision material on the Moodle site. Exemplar questions will also be discussed during the tutorial and laboratory sessions, to help prepare for this assessment task.

This in-class test will assess the students' ability to:

- differentiate and discuss the aetiology, pathophysiology and echocardiographic assessment processes associated with a variety of cardiovascular diseases;
- analyse case-based clinical information to formulate differential diagnoses;
- interrogate measurements supplied;
- accurately apply appropriate haemodynamic calculations and interpret resulting values;
- demonstrate clinical reasoning;
- use appropriate terminology and descriptors as well as grammar and spelling.

This test will be **180 minutes** duration and comprises 50% of the final unit grade. You will require a simple calculator (not a scientific calculator) for this test.

Assessment Due Date

Examination block, Tuesday 6th June at 9am local campus time.

Return Date to Students

Results will be available within two weeks of the due date. The online test question pool in its entirety will not be released to students.

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

This test will be conducted at campus of enrolment, under examination conditions as detailed in the CQU Assessment Procedures. The test must be performed at the timetabled date and time. As per CQU Assessment Procedures, this task is to be completed during the defined period. There is no opportunity to apply a late penalty.

If you arrive late, you may enter the test room up to 30 minutes after the start of the test; you will still be required to submit your test at the preset completion time. You will not be allowed entry more than 30 minutes after the test starts. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero (0) for the assessment if you have not completed it by the scheduled date and time.

The allocated number of marks for each question is indicated on the Moodle interface. Marks are allocated based on accuracy, depth and breadth of the required response.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

In-class online test 2 to be performed at campus of enrolment.

Learning Outcomes Assessed

- Differentiate between the aetiology, pathophysiology and echocardiographic assessment process associated with a variety of cardiovascular disease processes
- Perform and interpret measurements and advanced haemodynamic calculations applied to 2D, colour and

- spectral Doppler derived echocardiographic measures
- Differentiate prosthetic valve and valvular surgical intervention functionality and disease processes
- Analyse case-based clinical information to formulate differential diagnoses and plan patient management

3 Echocardiography Skills Assessment

Assessment Type

Practical Assessment

Task Description

The Echocardiographic Skills Assessment is comprised of two parts— Part A 'Practical' and Part B 'Measurement Performance and Interpretation'. Part A involves completion of a comprehensive echocardiographic protocol. Part B involves echocardiographic image interpretation and measurement performance.

Students will be assessed according to the Assessment of Readiness for Clinical (ARC) tools, which are available on the unit Moodle site. These documents detail performance criteria the student must demonstrate competence in to pass the assessment. Student competence is assessed in relation to the expectations specific to this unit of study. Students enrolled in ECHO13006 are working towards attainment of **Advanced Beginner level of competency**, as detailed on the ARC tools.

PART A - Practical

Part A of the Echocardiography Skills Assessment incorporates both a Professional and Technical component and requires students to perform a comprehensive 2D, colour Doppler and spectral Doppler echocardiographic examination using ultrasound equipment. Students have 60 minutes in total to complete both the Professional and Technical components.

Professional Component

The Professional component of the assessment evaluates performance aspects of the sonographic exam such as communication (verbal, non-verbal, and written), professional behaviour, ergonomics, and patient care skills. This encompasses an assessment of pre-scan, scanning, and post-scan skills.

Technical Component

The Technical component of the assessment evaluates the student's scanning technique, image optimisation, and ability to complete a comprehensive echocardiogram within a reasonable set time to an 'Advanced Beginner' level of competency.

- The ARC tool details the required imaging sequence and performance criteria cues.
- Except for panning or sector sweeps, which are critiqued live or via video recording moderation, the collection of images stored by the student represent the echocardiographic examination performed.
- At the end of the examination the supervising tutor will acquire a variety of representative images. These images will be used during marking and moderation to ascertain achievable image quality.

Note: Part A (Practical) of the Echocardiography Skills Assessment will be video recorded for moderation purposes. The videos will not be released to students for review.

All students are required to make themselves available to act as a patient model for peer assessments. Students must additionally make themselves available for re-sit assessments if requested by the unit coordinator.

PART B - Interpretation and Measurement Performance

Part B of the Echocardiography Skills Assessment incorporates both a Measurement Performance and Interpretation component. Students are required to accurately interpret echocardiographic images and measurement outcomes, in addition to accurately performing their own echocardiography measurements offline using discipline specific analysis software. Students have 50 minutes to complete both the Measurement Performance and Interpretation components.

Measurement Performance Component

The Measurement Performance component requires students to apply best practice guidelines when undertaking routine measurements on echocardiographic images using Q-Station discipline specific software. Students are required to save measurement images to a desktop folder and transcribe these measurement values onto a provided worksheet replicating clinical documentation.

- The ARC tool details the required measurement sequence and performance criteria cues.
- Students must transcribe these measurements onto a provided worksheet replicating clinical documentation.
- The collection of images stored by the student represent the measurement examination performed.

Interpretation Component

The Interpretation component requires students to evaluate and interpret echocardiography images presented using Q-station discipline specific software. Students are required to:

- Recall common reference ranges for cardiac chamber quantification, systolic function evaluation and right heart pressure estimation.
- Apply ASE Diastolic Function Algorithms (a copy of which will be supplied to students under assessment conditions).
- Recognise limitations of relevant images and measurements.
- Document interpretation using discipline specific conventions, including rationale, onto a provided worksheet replicating clinical reporting.

Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

- In the absence of an approved extension, this assessment cannot be completed at a later time.
- Students will receive a FAIL for this assessment if it is not completed by the scheduled date and time and there is no approved extension.
- Should a student fail this assessment, there will be only ONE opportunity to re-sit the failed component of the assessment item.

Assessment Due Date

Week 12. Re-sit assessments will be held during the end of term exam week. Students will be advised of scheduling via the unit Moodle site.

Return Date to Students

Results will be available within two weeks of the due date.

Weighting

Pass/Fail

Assessment Criteria

Students will be assessed using the below documents. Students are advised to carefully review these documents which are available on the unit Moodle site.

- Part A Practical Assessment of Readiness for Clinical (ARC) Tool
- Part B Interpretation and Measurement Performance ARC Tool

PART A - Practical

To pass Part A of this assessment, a student must be deemed competent in both the Professional and Technical components. To pass these components, ALL criteria must be demonstrated to the appropriate level of competence as detailed on the ARC tools.

The Professional and Technical components are graded separately so that if one is passed and the other is not, only the failed component must be repeated to pass. There is only ONE opportunity to re-sit either component of this assessment item.

PART B - Measurement Performance and Interpretation

To pass Part B of this assessment, a student must be deemed competent in both the Measurement Performance and Interpretation components. To pass the Measurement Performance and Interpretation components, ALL criteria must be demonstrated to the appropriate level of competence as detailed on the ARC tools. If multiple images of a single measurement are saved, only the image corresponding to the measurement transcribed on the worksheet will be assessed.

The Measurement Performance and Interpretation components are graded in combination so that if failed, both components of assessment Part B must be repeated to pass. There is only ONE opportunity to re-sit this assessment item.

Mock Examination

Students will be provided with a single opportunity to attempt the Echocardiography Skills Assessment under mock examination conditions. Individual feedback will be provided to students after completing the mock assessments.

Students will receive a completed MOCK Part A (Practical) ARC tool and MOCK Part B (Measurement Performance and Interpretation) ARC tool following moderation. Scanning feedback will be provided verbally by the tutor supervising each individual student mock practical scanning assessment.

The mock assessment will be delivered as part of the routine laboratory sessions. Note, there is no opportunity for rescheduling of missed laboratory sessions.

Referencing Style

- [Vancouver](#)

Submission

No submission method provided.

Submission Instructions

This assessment will be conducted by local staff at campus of enrolment.

Learning Outcomes Assessed

- Perform and interpret measurements and advanced haemodynamic calculations applied to 2D, colour and spectral Doppler derived echocardiographic measures
- Perform an echocardiographic examination efficiently and effectively

4 Professional Behaviour and Lab Documentation

Assessment Type

Performance

Task Description

The purpose of this assessment is to ensure that students from the echocardiography course are well-equipped to embody the high standards of professionalism that are expected from CQUniversity students while on their follow-on clinical placement blocks. Professional behaviour is a critical part of any medical imaging profession and encompasses the manner in which we treat our colleagues, patients and the professional settings and equipment we interact with. Exemplary professional behaviour is highly valued by clinical supervisors and this information may be used to endorse students for placements if requested by clinical sites.

This assessment requires students to treat each of the lab sessions as a scheduled "work shift" and to exhibit high quality professional attributes. This assessment is based on a continuous and ongoing evaluation of student application and attendance during labs, and behaviour exhibited during the time spent studying this unit up until the completion of all formal assessments. Aspects of professionalism will be assessed across multiple levels including, but not limited to: maintenance of laboratory documentation, Moodle forums, online tutorials, lab sessions (both manned and unmanned), interactions with peers and staff, social media, phone calls and all official correspondence with university staff, peers and the community.

Students are required to maintain accurate laboratory documentation and conduct themselves in a professional manner at all times. Instances of substandard professional behaviour will result in a Lapse in Professionalism (LiP) point being awarded to the offending student. **Should a student acquire more than three (3) LiPs, this assessment will automatically be graded a FAIL.** If any exhibited attitude or behaviour is deemed as unsafe or inappropriate, this assessment will be graded as a FAIL at the discretion of the unit coordinator.

LiPs may be issued in three different categories:

1. Professional behaviour towards colleagues and staff
2. Professional behaviour towards patients
3. Professional behaviour towards professional settings and equipment

Further information is detailed in the **Expected Professional Behaviour and LiP Allocation** document, which is available on the Moodle site. Students are encouraged to review this document to be sure of behavioural expectations. Students should also be familiar with the CQUniversity Student Charter as well as the Australasian Sonographers Association (ASA) Code of Conduct (available online).

Absenteeism

Skills labs for this unit are mandatory. Students must advise the unit coordinator before the start of compulsory labs if unable to attend. Failure to notify staff appropriately *before* the start of a missed lab will result in a LiP (Lapse in Professionalism) except in extraordinary circumstances. Lateness to labs may also result in a LiP, whether notice is given

or not. Labs missed for a valid reason (eg. illness or injury) require supporting documentation. Medical or health-related certificates must be in the approved formats articulated in the CQUniversity Assessment Policy and Procedure (HE Coursework).

Any missed labs must be clearly marked on the Lab Attendance Page and Reflective Feedback Form. A tutor's signature is not required in this case. There is no opportunity to 'make up' missed lab sessions.

Unmanned Practice Sessions

Students are offered regular unmanned practice sessions, which are scheduled through Google Doc links on the Moodle site. Penalties will apply if instructions and rules disclosed on these documents are not adhered to. Failure to abide by these regulations may result in a LiP and removal of attendance privileges.

Assessment Due Date

Lab Agreement Form and Consent Form - Sonographic Examination for Teaching Purposes are due Wednesday 8th March, 12pm (AEST). Lab Attendance and Professional Behaviour Assessment form is due Friday 2nd June, 5pm (AEST).

Return Date to Students

Results will be available within two weeks of the final due date.

Weighting

Pass/Fail

Assessment Criteria

This assessment incorporates maintenance of pertinent lab documentation including lab attendance and any Lapse in Professionalism (LiP) points accrued throughout unit delivery. To pass this unit students need to consistently display a high standard of professional behaviour including, but not limited to, punctual lab attendance. All interactions with staff and peers pertaining to this unit will be treated as a replica of the clinical work environment, and students are expected to demonstrate the professional behaviour expected in a formal work environment. **No more than three (3) Lapses in Professionalism are permitted to pass the unit.**

Students are required to complete the following documentation and submit to Moodle in PDF format. All documents are available on the unit Moodle page.

1. A signed **Lab Agreement Form**
2. A signed **Consent Form - Sonographic Examination for Teaching Purposes**
3. A completed and signed **Lab Attendance and Professional Behaviour Assessment** form

Note that the Lab Agreement Form and the Consent Form are due *prior* to commencing lab sessions in week 1 and must be uploaded to Assessment 4a. Students will not receive access to weekly content and will not be able to participate in laboratory sessions until these documents have been uploaded to Moodle.

To PASS this assessment, all documentation must be completed appropriately and submitted by the due date and time. All documents must be legible, labelled appropriately and uploaded in PDF format.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

All documents must be appropriately labelled with student name, student number and document descriptor (eg. JohnSMITH_S12345_LabAgreementForm). Documentation must be submitted in PDF format. JPEG is not acceptable. A total of three (3) individual documents must be uploaded.

Learning Outcomes Assessed

- Display professional behaviour, teamwork and communication skills consistent with safe practice

5 Formative Feedback and Self-Reflection

Assessment Type

Reflective Practice Assignment

Task Description

The ability to set goals, self-reflect and adopt feedback are tools to aid the progress of knowledge and skill development.

These abilities also address industry requirements, whereby professionals must perform continuing professional development (CPD) activities to maintain accreditation.

Completion of these documents encourages students to develop self-reflection skills, apply goal-setting strategies and implement feedback for performance improvement. Feedback forms must be completed, signed by a tutor where applicable, and submitted to Moodle as one PDF file by the due date.

Assessment Due Date

Friday 2nd June, 5pm (AEST).

Return Date to Students

Results will be available within two weeks of the due date.

Weighting

Pass/Fail

Assessment Criteria

The **Formative Feedback and Self-Reflection** document is available on the Moodle site and must be presented to the supervising tutor at each of the tutorial lab sessions.

To PASS this assessment, all documentation must be completed appropriately and submitted by the due date and time. All documents must be legible, labelled appropriately and uploaded in PDF format.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

All documents must be appropriately labelled with student name, student number and document descriptor (eg. JohnSMITH_S12345_ReflectiveFeedback). Documentation must be submitted as one single file in PDF format. JPEG is not acceptable.

Learning Outcomes Assessed

- Apply reflective feedback to professional practice improvement.

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem