



ECHO12006 Cardiac Science

Term 1 - 2020

Profile information current as at 29/04/2024 04:11 pm

All details in this unit profile for ECHO12006 have been officially approved by CQU University 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.

Corrections

Unit Profile Correction added on 06-04-20

The end of term examination has now been changed to an alternate form of assessment. Please see your Moodle site for details of the assessment.

The in-class test has now been changed to an alternate form of assessment. Please see your Moodle site for details of the assessment.

The lab skills based assessments have now been deferred. Please see your Moodle site for details of the assessment.

General Information

Overview

The accurate diagnosis of cardiac conditions requires comprehensive knowledge of cardiac pathophysiology, and the outcomes of a variety of cardiovascular assessment procedures. In this unit you will be introduced to cardiac assessment within the catheterisation laboratory. You will learn how to interpret a 12-Lead electrocardiogram (ECG), and how to assess cardiac structure and function by performing a 2D echocardiographic examination. Within the ethical framework of best practice, you will examine simulated case based clinical information, to explore the outcomes of these procedures, formulating differential diagnoses and patient management strategies for a variety of common cardiovascular pathologies. Attendance at practical activities is a requirement of this unit.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 12

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.25

Pre-requisites or Co-requisites

Pre-requisite ECHO11002 Cardiac Structure and Function and ECHO11003 Fundamentals of Cardiac Science
Co-requisite MEDS12001 Physics of Ultrasound

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 - 2020

- 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. **Written Assessment**

Weighting: 20%

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

Weighting: 20%

3. **Practical Assessment**

Weighting: Pass/Fail

4. **Performance**

Weighting: Pass/Fail

5. **Reflective Practice Assignment**

Weighting: Pass/Fail

6. **Examination**

Weighting: 60%

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 Moodle

Feedback

Expectations of student achievement and behaviour are clearly outlined and reinforced.

Recommendation

Moodle format and delivery style will be continued in 2019.

Feedback from Student evaluation/ reflection from staff

Feedback

A strong correlation between student practical assessment success and utilisation of unmanned and manned practise offerings has been noted.

Recommendation

Staff will continue to highlight the importance of scanning practise.

Feedback from Moodle

Feedback

Students like to be able to download lectures to ensure accessibility in absence on internet access.

Recommendation

Older lectures are progressively being replaced with new recordings loaded through ECHO360.

Feedback from Moodle

Feedback

Students found the written assessment challenging.

Recommendation

Further guidance will be provided to students surrounding appropriate writing style and referencing application.

Unit Learning Outcomes

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

1. Perform the standard two dimensional echocardiographic protocol including associated anatomical quantification
2. Provide rationale for the exclusion of artefactual and discordant 2D echocardiographic findings
3. Analyse case-based clinical information to formulate differential diagnoses and plan patient management strategies for a variety of common cardiovascular pathologies
4. Discuss common cardiac catheterisation procedures including radiation safety
5. Interpret the outcome of 12-Lead electrocardiogram (ECG) studies
6. Apply professional behaviour, teamwork and communication skills consistent with safe practice
7. Apply constructive 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 - Written Assessment - 20%			•				
2 - In-class Test(s) - 20%					•		
3 - Practical Assessment - 0%	•	•					
4 - Performance - 0%						•	
5 - Reflective Practice Assignment - 0%							•
6 - Examination - 60%		•	•	•			

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							

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 20%	•		•	•		•	•			
2 - In-class Test(s) - 20%	•	•	•	•						

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
3 - Practical Assessment - 0%	•	•	•	•		•	•	•		
4 - Performance - 0%	•	•	•		•		•	•		
5 - Reflective Practice Assignment - 0%	•	•	•	•				•		
6 - Examination - 60%	•	•		•				•		

Textbooks and Resources

Textbooks

ECHO12006

Prescribed

12-lead ECG: The Art of Interpretation

Edition: 2nd (2015)

Authors: Thomas B. Garcia

Jones and Bartlett Learning

Burlington , MA , United States of America

ISBN: 9781284040883

Binding: Other

ECHO12006

Prescribed

A Sonographer's Guide to the Assessment of Heart Disease

(2014)

Authors: Bonita Anderson

Echotext Pty Ltd

Brisbane , QLD , Australia

Binding: Other

ECHO12006

Prescribed

Echocardiography : The Normal Examination and Echocardiographic Measurements

3rd revised edition (2016)

Authors: Anderson, B

Echotext

Wynnum , QLD , Australia

ISBN: 9780992322212

Binding: Paperback

ECHO12006

Supplementary

The Cardiac Catheterization Handbook

Edition: 6th (2016)

Authors: Morton J. Kern, Paul Sorajja, Michael J. Lim

Elsevier

Philadelphia , PA , United States of America

ISBN: 9780323340397

Binding: Other

Additional Textbook Information

Students preferring an e-version of the Cardiac Catheterization Handbook can follow the link to the Library here: [Click HERE for CQU Library: Kern MJ, Sorajja P, Lim MJ. Cardiac catheterization handbook. Elsevier Health Sciences; 2015 Aug 26.](#)

[View textbooks at the CQUiversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUiversity 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

Ashley Spermon Unit Coordinator
a.spermon@cqu.edu.au

Schedule

Week 1 - 09 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
CCL: Purpose, Procedures, and Equipment ECG: Introducing the Stepwise Method, identifying Rhythm, and P waves Echo: Standard TTE windows, and 2D optimisation	See eReading List via Moodle.	PROFESSIONAL BEHAVIOUR ASSESSMENT (P/F): Lab Agreement Form and Consent Form UPLOAD DUE Friday 13th March. REFLECTIVE PRACTICE ASSESSMENT (P/F): Reflective Learning Form 1 (LAB 1: Parasternal Window)

Week 2 - 16 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
CCL: Radiation in the CCL ECG: the P-R interval, Q waves, and the QRS complex Echo: Gross cardiac anatomy	See eReading List via Moodle.	REFLECTIVE PRACTICE ASSESSMENT (P/F): Reflective Learning Form 2 (LAB 2: Apical Window)

Week 3 - 23 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
CCL: CV haemodynamics ECG: the ST segment, T waves, and the Q-T interval Echo: 2D measurements, and introduction to M-Mode	See eReading List via Moodle.	REFLECTIVE PRACTICE ASSESSMENT (P/F): Reflective Learning Form 3 (LAB 3: Subcostal and Suprasternal Windows)

Week 4 - 30 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
CCL: Pressure transducers ECG: Interpretation Echo: Measuring area and volume, and right atrial pressure estimation	See eReading List via Moodle.	REFLECTIVE PRACTICE ASSESSMENT (P/F): Reflective Learning Form 4 (LAB 4: Full 2D scan)

Week 5 - 06 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
CCL: Determining Cardiac Output (CO) ECG: Identifying arrhythmias Echo: Pericardial effusion	See eReading List via Moodle.	NO LAB

Vacation Week - 13 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 20 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Echo: Assessing systolic function, and the eccentricity index and pulmonary hypertension	See eReading List via Moodle.	REFLECTIVE PRACTICE ASSESSMENT (P/F): Reflective Learning Form 5 (LAB 5: Full 2D scan) IN-CLASS TEST Due: Week 6 Monday (20 Apr 2020) 8:00 am AEST

Week 7 - 27 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Echo: Myocardial infarction complications, and non-ischaemic causes of chest pain	See eReading List via Moodle.	REFLECTIVE PRACTICE ASSESSMENT (P/F): Reflective Learning Form 6 (LAB 6: Full 2D scan)

Week 8 - 04 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Echo: Cardiac masses	See eReading List via Moodle.	REFLECTIVE PRACTICE ASSESSMENT (P/F): Mock 2-Dimensional and M-Mode Echocardiography Skills Test Due Week 8 on Wednesday 6th or Thursday 7th May

Week 9 - 11 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Echo: Aortic valve anatomy and disease, and aortopathies	See eReading List via Moodle.	NO LAB WRITTEN TASK Due: Week 9 Monday (11 May 2020) 11:55 pm AEST

Week 10 - 18 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Echo: Mitral valve anatomy and disease	See eReading List via Moodle.	2-DIMENSIONAL AND M-MODE ECHOCARDIOGRAPHY SKILLS TEST Due: Week 10 Wednesday (20 May 2020) 8:00 am AEST

Week 11 - 25 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Echo: Tricuspid valve anatomy and disease, and pulmonary valve anatomy and disease	See eReading List via Moodle.	

Week 12 - 01 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic
Review		2-DIMENSIONAL AND M-MODE ECHOCARDIOGRAPHY SKILLS TEST (P/F) RE-SIT TESTS Wednesday 3rd or Thursday 4th June PROFESSIONAL BEHAVIOUR ASSESSMENT Due: Week 12 Friday (5 June 2020) 11:55 pm AEST REFLECTIVE PRACTICE Due: Week 12 Friday (5 June 2020) 11:55 pm AEST

Review/Exam Week - 08 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic
		EXAMINATION (60%) during CQUniversity Exam Block

Exam Week - 15 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

The Unit Coordinator for ECHO12006 is **Ashley Spermon**. The best mode of contact is by email via a.spermon@cqu.edu.au. Please put the unit code ECHO12006 and your student number in the email subject title. Laboratory commitments are ongoing, therefore, it is often best to email and request a scheduled meeting (over the phone, via Zoom, or in person), if necessary.

The first point of contact is the Q&A forum on the unit Moodle site. As there are content experts teaching in to this unit, this enables the appropriate staff member to respond to your forum post. Forums are monitored and responses will be posted to all students in a timely manner.

This unit consists of weekly pre-recorded LECTURES introducing you to cardiac pathophysiology and procedures, TUTORIALS, and LABORATORY (LAB) SESSIONS. Live weekly Zoom tutorials will be held during the term. Specific times and Zoom meeting IDs will be posted on the Moodle site. The Zoom tutorials will focus on clarification of course concepts and/or assessment requirements and clinical case studies which will link the course content with clinical practice. To give yourself the best chance of success with the unit, please ensure that you undertake all the additional readings and activities that are provided to you.

Lab sessions for this unit are mandatory. The Lab induction is compulsory and must be completed via the Moodle site prior to the first skills lab, with failure to successfully complete this task resulting in the award of a 'Lapse in Professionalism' (LiP). Labs that are missed for a valid reason require supporting documentation. Any lab that is missed without a valid reason or supporting documentation will warrant a LiP. There is no opportunity for 'make up' sessions for labs missed due to non-attendance. Please pay close attention to the lab schedule for this course. Students are required to adhere to the [CV69 Course Dress Code](#) when using the lab. All students must be available to act as a patient model during Week 10 and Week 12 for practical assessment or re-sit practical assessments, if requested by the Unit Coordinator.

Assessment Tasks

1 WRITTEN TASK

Assessment Type

Written Assessment

Task Description

Word count: 1000 words +/- 10%. Reference list excluded.

Combining electrocardiogram (ECG) and echocardiogram findings is useful in the diagnostic pathway. Students are to submit an academically researched and referenced essay discussing left atrial (LA) enlargement, including ECG and echocardiographic findings. LA enlargement is commonly seen in patients with the use of echocardiography. LA enlargement may occur in response to a pressure or volume overload of the LA, and is often associated with atrial fibrillation (AF).

Include in your essay:

- Characteristic findings of LA enlargement, as observed with a standard 12-Lead ECG during sinus rhythm
- Characteristic findings of LA enlargement, as observed with a 2-dimensional echocardiogram
- Description of recommended echocardiographic assessment techniques used to quantify LA size, including absolute and indexed reference ranges for normal LA size, appropriate measurement units, and (a minimum of one) imaging caveat for each technique described
- Identification of (a minimum of three) related cardiac abnormalities associated with LA enlargement that are detected by 2-dimensional echocardiography, and explain why they are likely to be associated with LA enlargement
- Describe the association of LA enlargement with AF, and explain why these abnormalities are significant factors for thromboembolic stroke
- Discuss common pharmaceutical interventions used to mitigate the risk of thromboembolic stroke, as caused by LA enlargement and AF
- Include an example of a standard 12-Lead ECG of AF, and provide an explanation of the defining features of the rhythm

Referencing

Use Vancouver referencing style throughout your essay, with one reference list at the end. Your response must be supported by references. It is expected that you research your response and follow Vancouver referencing style accurately. A minimum of five recent (within the last five years) academic references from peer-reviewed journals must be cited, excepting seminal works. Academic integrity is mandatory, with all potential breaches to be managed in line with CQUniversity's 2019 [Student Academic Integrity Policy and Procedure](#). The CQUniversity [Library Guide for using](#)

[Health and Medical Databases](#) may assist you in getting started on this assessment.

Marks will be awarded according to the rubric. Please utilise the following documents available on the Moodle page:

- [Written assessment template](#)
- [Marking rubric](#)

This assessment carries a 20% weighting toward the final unit grade. Students are advised to refer to CQUniversity's [Grades and Results Policy](#) and [Assessment Policy and Procedure \(Higher Education Coursework\)](#) for additional guidelines regarding assessments.

Assessment Due Date

Week 9 Monday (11 May 2020) 11:55 pm AEST

Online via Moodle. Word documents only.

Return Date to Students

Week 11 Monday (25 May 2020)

Results will be made available once submissions have been marked and moderated.

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

You will be assessed on your ability to:

- Locate and critically evaluate information
- Recognise pertinent professional information
- Describe practical aspects of electrocardiography and echocardiography
- Produce a referenced, scholarly essay

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Online via Moodle. Word documents only.

Learning Outcomes Assessed

- Analyse case-based clinical information to formulate differential diagnoses and plan patient management strategies for a variety of common cardiovascular pathologies

Graduate Attributes

- Communication
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence

2 IN-CLASS TEST

Assessment Type

In-class Test(s)

Task Description

The ability to correctly analyse and interpret a 12-Lead Electrocardiogram (ECG) is crucial in a professional cardiac diagnostic role. Comprehensive ECG analysis and interpretation can provide vital information about the nature and location of heart disease. Students are to correctly analyse and interpret a series of 12-Lead ECGs in accordance with the Stepwise Method (10 minutes perusal + 60 minutes test). Please utilise the following document:

- [Stepwise Method of ECG Interpretation](#)

A PASS must be obtained to pass this unit overall. To be awarded a PASS, a student must demonstrate a 'Novice Level' of competency (60% grade). Students will be prepared for this assessment through lectures, tutorials, and provision of revision tasks in a similar format during the unit delivery. Students are advised to refer to CQUniversity's

[Grades and Results Policy](#) and [Assessment Policy and Procedure \(Higher Education Coursework\)](#) for additional guidelines regarding assessments.

The in-class test will occur in Week 6 Monday 20th April. Time and room location will be announced via the unit Moodle page. In the absence of an approved extension, this assessment cannot be completed at a later time. Students will receive a mark of zero or FAIL for this assessment if not completed at the scheduled date and time. Students are advised to refer to the [Assessment Policy and Procedure \(Higher Education Coursework\)](#) for additional guidelines regarding assessments.

Assessment Due Date

Week 6 Monday (20 Apr 2020) 8:00 am AEST

Campus specific locations for the In-Class Test will be announced on Moodle.

Return Date to Students

Week 8 Monday (4 May 2020)

Results will be made available once submissions have been marked and moderated.

Weighting

20%

Minimum mark or grade

60%

Assessment Criteria

You will be assessed on your ability to:

- Determine cardiac rhythm, rate, and axis
- Identify common abnormalities in the ECG complex
- Identify common arrhythmia(s)
- Utilise correct terminology in interpreting ECG waveforms, segments, intervals, and associated anomalies

Referencing Style

- [Vancouver](#)

Submission

Offline

Submission Instructions

In-Class Test papers and resources to be submitted in person at the conclusion of the test.

Learning Outcomes Assessed

- Interpret the outcome of 12-Lead electrocardiogram (ECG) studies

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

3 2-DIMENSIONAL AND M-MODE ECHOCARDIOGRAPHY SKILLS TEST

Assessment Type

Practical Assessment

Task Description

The ability to acquire, optimise, and interpret 2-dimensional (2D) and M-mode echocardiographic images is crucial in a professional cardiac sonography role. Students are to perform a complete echocardiogram practical skills test (2D and M-mode) and QLab measurement assessment.

Professional and technical scanning requirements are discussed in the unit Lab Manual, lab sessions, lectures, and tutorials. This is a PASS/FAIL assessment. To be awarded a PASS, a student must demonstrate a 'Novice Level' of competency (60% grade). Components are as follows:

Echocardiogram practical skills test (Part A):

- Professional (pre-scan, during, and post scan) requirements
- Apply correct patient care techniques and effective communication to obtain relevant patient history, informed consent, and to direct patients accordingly
- Apply professionalism in dealing with equipment and the scanning setting
- Technical (scanning) requirements for an echocardiographic study

- Demonstrate appropriate echocardiographic scanning technique, image optimisation, and acquisition, in a reasonable time period to a 'Novice Level' of competency. A scanning time limit of ONE HOUR will be applied to image acquisition
- Students will be assessed using the Assessment of Readiness for Clinical tool: [Scanning and Professional Behaviour ARC Tool](#) - students are advised to carefully review this document

QLab measurements test (Part B):

- Perform a series of offline measurements using the QLab workstations. A time limit of 35 MINUTES will be applied to perform and save measurements
- Students will be assessed using the Assessment of Readiness for Clinical tool: [QLab Measurement ARC Tool](#) - students are advised to carefully review this document

Professional and technical components of Part A are graded separately, so that if a PASS is awarded for one and the other is not, only the component that was a FAIL must be repeated. I.e. If a student is awarded a FAIL for the Part A professional component only, the full practical scanning assessment will be repeated, but the student will be marked on the professional component only. There is only ONE opportunity to re-sit either component of this assessment item. In the absence of an approved extension, students cannot complete this assessment at a later time, and will be awarded a FAIL for this assessment. Students who are ill and cannot attend the assessment on the scheduled day must notify the Unit Coordinator and local campus staff before the start of their assessment for the assessment to be postponed to another day. Medical or health-related certificates must be in the approved formats as articulated in the CQUniversity [Assessment Policy and Procedure \(Higher Education Coursework\)](#), under Section 5.

Test dates: Week 10 Wednesday 20th and Friday 22nd May (schedule to be released during term - ALL students must be available during these days).

Re-sit test dates: Week 12 Wednesday 3rd and Thursday 4th June (schedule to be released during term - ALL students must be available during these days).

Assessment Due Date

Week 10 Wednesday (20 May 2020) 8:00 am AEST

Students will be advised of individual times for the practical skills test prior to the assessment date in Week 10. No marks or feedback will be given at the time of assessment.

Return Date to Students

Week 12 Wednesday (3 June 2020)

Results will be made available once submissions have been marked and moderated. Students will be advised of their test results, and re-sit test details, prior to the re-sit assessment date in Week 12.

Weighting

Pass/Fail

Minimum mark or grade

A minimum of 60% is required to demonstrate the 'Novice Level' of competency required to pass this assessment, and the unit overall. This assessment does not carry a weighting toward the final unit grade.

Assessment Criteria

To pass this assessment, all components of the practical skills test and QLab test must be awarded a PASS. To be awarded a PASS, the student must:

- Achieve 60% of available marks in the Part A professional component AND all bolded items
- Achieve 60% of available marks in the Part A technical component
- Achieve 60% of available marks in the Part B QLab measurements component

Students will be assessed using the:

- [Scanning and Professional Behaviour ARC Tool](#)
- [QLab Measurement ARC Tool](#)

Students are advised to carefully review these documents. In the event that a student does not achieve a minimum of 60% or higher, or FAIL one of the Part A professional component bolded items, the student will be given one opportunity to re-sit the technical, professional and/or QLab components (whichever is applicable) in Week 12. I.e. If a student is awarded a FAIL for the Part A professional component only, the full practical scanning assessment will be repeated, but the student will be marked on the professional component only.

Assessments will be 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 assessment if requested by the Unit Coordinator. This includes the test, and re-sit test.

Referencing Style

- [Vancouver](#)

Submission

No submission method provided.

Submission Instructions

ARC Tools will be completed by assessors for this task.

Learning Outcomes Assessed

- Perform the standard two dimensional echocardiographic protocol including associated anatomical quantification
- Provide rationale for the exclusion of artefactual and discordant 2D echocardiographic findings

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

4 PROFESSIONAL BEHAVIOUR ASSESSMENT

Assessment Type

Performance

Task Description

High standards of professional behaviour are a critical part of the medical imaging profession, and includes the interactions with colleagues, patients, wider professional setting, as well as use of technical equipment. Attending labs, demonstrating professionalism (refer to the [ASA Code of Conduct](#) and [CQUniversity Code of Conduct](#)), and adhering to workplace guidelines (including the CQUniversity Echocardiography Dress Code) are required for success in the medical imaging profession. The purpose of this assessment is to prepare students for professional behaviour, attendance, and documentation responsibilities whilst on clinical placement.

This assessment will require you to complete the following documentation as set forth in the ECHO12006 Lab Manual:

- [Lab Agreement form](#) to be signed and uploaded by Week 1 Friday 13th March
- [Consent form](#) to be signed and uploaded by Week 1 Friday 13th March
- [Professional Behaviour rubric](#) to be uploaded by Week 12 Friday 5th June
- [Lab Attendance form](#) to be uploaded by Week 12 Friday 5th June

Students must upload all of the required documentation for this assessment by the due date and time to be awarded a PASS. If you are absent from a skills lab, please indicate the reason for this yourself on the Formative Feedback form (Assessment 5).

In the workplace, it is imperative that colleagues and patients who are depending on a health care professional are aware of whether the professional will be attending their workplace, or not. Labs missed for a valid reason require supporting documentation, and students are advised to contact the Unit Coordinator and local campus staff to notify staff of the missed lab. Any lab missed without a valid reason and supporting documentation and/or prior approval will result in the award of a Lapse in Professionalism (LiP), as outlined in the Professional Behaviour rubric and Lab Attendance Form. A maximum of three LiPs can be awarded without unit penalty. If a fourth LiP is awarded, the assessment task will be graded as a FAIL.

Skills labs for this unit are mandatory. You must notify the Unit Coordinator and local campus staff of your absence/illness before the start of compulsory labs. Failure to notify staff before the start of a lab will result in the award of a Lapse in Professionalism (LiP), as outlined in the Professional Behaviour rubric and Lab Attendance Form. Medical or health-related certificates must be in the approved formats as articulated in the CQUniversity [Assessment Policy and Procedure \(Higher Education Coursework\)](#), under Section 5.

Professional misbehaviour will result in the award of a Lapse in Professionalism (LiP), as outlined in the Professional Behaviour rubric and Lab Attendance Form. Students are advised to review the [Expected Professional Behaviour and LiP Allocation](#) and [LiP](#) documents.

Assessment Due Date

Week 12 Friday (5 June 2020) 11:55 pm AEST

Lab Agreement + Consent Form: Week 1, Friday 13th March (UPLOAD ONLY) / Professional Behaviour Rubric + Lab Attendance Form, Week 12, Friday 5th June (UPLOAD + SUBMIT)

Return Date to Students

Exam Week Friday (19 June 2020)

Results will be made available once submissions have been marked and moderated.

Weighting

Pass/Fail

Assessment Criteria

This assessment is marked using the Professional Behaviour Assessment (PBA) rubric and incorporates lapses in professionalism (LiPs). To pass this unit, you need to achieve 12/15 for your PBA, and can receive a maximum of three LiPs across all descriptors. I.e. If a fourth Lip is issued, the maximum mark would be 11/15 and the assessment will be graded as a FAIL. LiPs can be issued in three different categories:

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

An additional explanatory document is available on the Moodle site regarding 'Expected Professional Behaviour and LiP Allocation'. Students are encouraged to review this information to ensure understanding of expectations regarding professional behaviour. To be awarded a PASS, all documentation must be completed and submitted on or before the corresponding due date and time. No more than THREE lapses in professionalism are permitted to PASS this unit.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Online via Moodle. All documents must be labelled with student details and document descriptor (E.g. 'John SMITH S12345 BNE Conesnt Form Week 1'). Forms must be individually submitted as separate PDF documents.

Learning Outcomes Assessed

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

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Team Work
- Cross Cultural Competence
- Ethical practice

5 REFLECTIVE PRACTICE

Assessment Type

Reflective Practice Assignment

Task Description

The ability to self-reflect is important for developing knowledge and skills, as well as to meet industry standards for continuing professional development. Students are to develop self-reflection skills through weekly goal setting and progression analysis. This assessment will require you to upload six completed [Formative Feedback forms](#) (one form for each lab conducted in term Week 1, Week 2, Week 3, Week 4, Week 6, and Week 7) with signature from a Tutor, and a completed Mock ARC Tool (conducted in **Week 8, on Wednesday 6th or Thursday 7th May** - students must be available on these days).

Formative Feedback forms must be completed before leaving at the end of each lab session, as this reflects the professional requirement to complete the required documentation after a patient's test, and have appropriate tasks signed by a clinical supervisor.

You must upload all of the required documentation for this assessment by the due date to obtain a PASS.

In the case of absence from a lab, students must indicate the reason for the absence on the Formative Feedback form (signature from a Tutor not required). Please note details under Assessment 3: Professional Behaviour Assessment which outlines the procedures for lab absences.

Assessment Due Date

Week 12 Friday (5 June 2020) 11:55 pm AEST

Formative Feedback forms (one for each lab, to be SIGNED AND DATED BY A TUTOR AT EACH LAB) and Mock Practical Task Scanning ARC Tool feedback form to be uploaded

Return Date to Students

Exam Week Friday (19 June 2020)

Results will be made available once submissions have been marked and moderated.

Weighting

Pass/Fail

Assessment Criteria

You will be assessed on your ability to:

- Provide and receive peer feedback
- Apply goal setting strategies
- Develop self-reflection skills

To obtain a PASS, all documentation must be completed and submitted on or before the corresponding due date and time.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Online via Moodle. All documents must be labelled with student details and document descriptor (E.g. 'John SMITH S12345 BNE Formative Feedback Form Week 1'). Forms must be individually submitted as separate PDF documents.

Learning Outcomes Assessed

- Apply constructive feedback to professional practice improvement.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Ethical practice

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

60%

Length

180 minutes

Exam Conditions

Closed Book.

Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

Calculator - non-programmable, no text retrieval, silent only

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