



# ECHO12008 Doppler Echocardiography

## Term 2 - 2022

Profile information current as at 27/04/2024 05:52 pm

All details in this unit profile for ECHO12008 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.

## General Information

### Overview

An understanding of the concepts of invasive and non-invasive diagnostic cardiovascular procedures is necessary in the field of echocardiography. In this unit you will be introduced to colour and spectral Doppler echocardiographic assessment techniques. You will analyse echocardiographic measurements to assess systolic and diastolic function and perform haemodynamic calculations. You will compare and contrast cardiac pressures derived using echocardiography to those obtained using cardiac catheterisation. You will apply your knowledge to a variety of cardiovascular pathologies and case studies. You will formulate differential diagnoses and consider patient management strategies within an ethical framework of best practice and patient safety. You will perform the standard echocardiographic protocol, with colour and spectral Doppler, in the simulated laboratory environment while demonstrating professional behaviour and reflective practice. Attendance is required at practical activities.

### 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: ECHO12006 Cardiac Science ANDMEDS12001 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 2 - 2022

- 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. **Online Quiz(zes)**

Weighting: 40%

#### 2. **Practical Assessment**

Weighting: Pass/Fail

#### 3. **Performance**

Weighting: Pass/Fail

#### 4. **Reflective Practice Assignment**

Weighting: Pass/Fail

#### 5. **Online Test**

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](#).

## Unit Learning Outcomes

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

1. Compare the aetiology, pathophysiology, diagnostic assessment process and patient management strategy for a variety of cardiovascular disease processes
2. Perform, analyse and contrast haemodynamic calculations on cardiac assessment data to formulate differential diagnoses
3. Perform the standard echocardiographic protocol with colour and spectral Doppler
4. Display professional behaviour, teamwork and communication skills consistent with safe practice
5. 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
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
1 - Online Quiz(zes) - 40%	•	•			
2 - Practical Assessment - 0%			•		
3 - Performance - 0%				•	
4 - Reflective Practice Assignment - 0%					•
5 - Online Test - 60%	•	•			

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	•	•
2 - Problem Solving	•	•	•	•	•
3 - Critical Thinking	•	•	•	•	•
4 - Information Literacy	•	•			•
5 - Team Work				•	

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - Online Quiz(zes) - 40%	•	•	•	•						
2 - Practical Assessment - 0%	•	•	•			•	•	•		
3 - Performance - 0%	•	•	•		•		•	•		
4 - Reflective Practice Assignment - 0%	•	•	•	•						
5 - Online Test - 60%	•	•	•	•						

## Textbooks and Resources

### Textbooks

ECHO12008

#### Prescribed

##### **A Sonographer's Guide to the Assessment of Heart Disease**

Edition: 1st (2016)

Authors: Bonita Anderson

Echotext Pty Ltd

Brisbane , Queensland , Australia

ISBN: 978-0-9923222-0-5

Binding: Hardcover

ECHO12008

#### Prescribed

##### **Basic to Advanced Clinical Echocardiography. A Self Assessment Tool for the Cardiac Sonographer.**

Edition: 1st (2020)

Authors: Bonita Anderson, Margaret Park

Wolters Kluwer

United States

ISBN: 9781975136253

Binding: Paperback

ECHO12008

#### Prescribed

##### **Echocardiography: The Normal Examination and Echocardiographic Measurements**

Edition: 3rd (2017)

Authors: Bonita Anderson

Echotext Pty Ltd

Brisbane , Queensland , Australia

ISBN: 978-0-9923222-1-2

Binding: Hardcover

[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

**Sue Kitto** Unit Coordinator

[s.kitto@cqu.edu.au](mailto:s.kitto@cqu.edu.au)

## Schedule

### Week 1 - 11 Jul 2022

Module/Topic

Chapter

Events and Submissions/Topic

The colour Doppler examination	Anderson B. Echocardiography : The Normal Examination and Echocardiographic Measurements. 3rd ed. Brisbane: Echotext; 2017. Chapter 5, pg. 83-103. Chapter 6, pg. 105-128.	<b>Lab Agreement Form</b> to be uploaded by 5.00 pm (AEST) on Monday 11th July (Week 1). <b>Consent Form - Sonographic Examination for Teaching Purposes</b> to be uploaded by 5.00 pm (AEST) on Monday 11th July (Week 1).
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### Week 2 - 18 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
The spectral Doppler examination	Anderson B. Echocardiography : The Normal Examination and Echocardiographic Measurements. 3rd ed. Brisbane: Echotext; 2017. Chapter 5, pg. 83-103. Chapter 6, pg. 105-128.	

### Week 3 - 25 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Fundamental principles of haemodynamic cardiac assessment	Anderson B. Echocardiography : The Normal Examination and Echocardiographic Measurements. 3rd ed. Brisbane: Echotext; 2017. Chapter 11, pg. 203-231.	

### Week 4 - 01 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Right heart pressure assessments	Anderson B. Echocardiography : The Normal Examination and Echocardiographic Measurements. 3rd ed. Brisbane: Echotext; 2017. Chapter 11, pg. 218-227	<b>Online Quiz 1</b> will open at 8:00 am (AEST) on Thursday 4th August (Week 4) and will close at 8:00 pm (AEST) Friday 5th August.

### Week 5 - 08 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Right ventricular systolic and diastolic function assessment	Anderson B. A Sonographer's Guide to the Assessment of Heart Disease. 1st ed. Brisbane: Echotext; 2016. Chapter 2, pg. 46-56. Chapter 3, pg. 82-85.	

### Vacation Week - 15 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
No content will be presented this week.		

### Week 6 - 22 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Assessment of left ventricular systolic function using spectral Doppler	Anderson B. A Sonographer's Guide to the Assessment of Heart Disease. 1st ed. Brisbane: Echotext; 2016. Chapter 2, pg 19-46. Anderson B. Echocardiography : The Normal Examination and Echocardiographic Measurements. 3rd ed. Brisbane: Echotext; 2017. Chapter 3, pg. 71-73. Chapter 4, pg. 77-78, Chapter 9, pg. 156-166. Chapter 14, pg. 277-293.	

### Week 7 - 29 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic

Physiology of left ventricular diastole	Anderson B. A Sonographer's Guide to the Assessment of Heart Disease. 1st ed. Brisbane: Echotext; 2016. Chapter 3, p 57-85. Lang, R. ASE's Comprehensive Echocardiography. Philadelphia, PA: Elsevier Saunders; 2016. Chapter 38, pg. 173-175.	<b>Online Quiz 2</b> will open at 8:00 am (AEST) on Thursday 1st September (Week 7) and will close at 8:00 pm (AEST) Friday 2nd September.
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### Week 8 - 05 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Assessment of left ventricular diastolic function	Anderson B. A Sonographer's Guide to the Assessment of Heart Disease. 1st ed. Brisbane: Echotext; 2016. Chapter 3, pg. 57-85. Lang, R. ASE's Comprehensive Echocardiography. Philadelphia, PA: Elsevier Saunders; 2016. Chapters 39-44, pg. 175-197.	

### Week 9 - 12 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Left ventricular diastolic function assessment in special populations	Anderson B. A Sonographer's Guide to the Assessment of Heart Disease. 1st ed. Brisbane: Echotext; 2016. Chapter 3, pg. 57-85.	<b>7 Formative Feedback Forms and Mock Assessment Reflection Form</b> are to be uploaded by 5pm (AEST) Monday 12th September (Week 9).

### Week 10 - 19 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Systemic hypertension	Anderson B. A Sonographer's Guide to the Assessment of Heart Disease. 1st ed. Brisbane: Echotext; 2016. Chapter 4, pg. 87-95.	<b>Echocardiography Skills Assessment</b> Students will be advised of Practical skills and Qlab assessment scheduling via the unit Moodle site.

### Week 11 - 26 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Pulmonary hypertension	Anderson B. A Sonographer's Guide to the Assessment of Heart Disease. 1st ed. Brisbane: Echotext; 2016. Chapter 4, pg. 96-111.	

### Week 12 - 03 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
Revision		<b>Professional Behaviour Assessment Rubric Form</b> to be uploaded by 5.00 pm (AEST) on Friday 7th October (Week 12). <b>Lab Attendance Form</b> to be scanned and uploaded by 5.00 pm (AEST) on Friday 7th October (Week 12).

### Review/Exam Week - 10 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
		<b>Online Test</b> will open at 8:00 am (AEST) on Thursday 13th October (Exam Week), and will close at 8:00 pm (AEST) on Friday 14th October.

### Exam Week - 17 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic

## Term Specific Information

### Unit Coordinator and Contact details

The coordinator for ECHO12008 Doppler Echocardiography is Sue Kitto. The most efficient and preferred method of contacting Sue is via the Q&A forum located on the unit Moodle site. If your query is of a personal nature, please contact Sue directly via email (s.kitto@cqu.edu.au) or phone (07 3023 4158). Please note, Sue's office days are Mondays, Tuesdays and Fridays.

Multiple academic staff will be providing presentations and hosting tutorials as part of this unit's delivery. Contact details for other academic staff can be found on the Moodle site.

### Unit Tutorials

Tutorials for this unit will be delivered 'live' online using ZOOM (the links required for accessing the tutorials are provided on the Moodle site under the weekly tabs). The tutorials will focus on answering the weekly study questions and contextualisation of key concepts in preparation for related assessments.

Lectures are used to present the central information for the week's study, outlining the main theories and principles of the topic under consideration. Tutorials provide an opportunity for discussion and interaction with other students and with your tutor. It is important students make the most of these interactive sessions and participate fully in order to broaden knowledge and experience with the course material.

To help staff prepare weekly tutorials, please post to the Q&A forum or email the unit coordinator any questions that you might have in relation to the learning material. Note: Tutorials are recorded for educational purposes. Recordings of Zoom tutorials may be uploaded and appear on YouTube, Moodle and Microsoft Teams. If you have any concerns about being recorded please turn off your webcam or audio, or both, during the session. Your participation will signify your consent to the recording and publication for educational purposes.

Weekly revision material will be provided. Attempting all provided revision material will help you prepare for your online quiz(zes) and test. No new lecture material will be presented during week 12 of term. This week will be used to prepare for the final assessment.

Please ensure that you review the 'Welcome video' available on the Moodle site for further unit specific information.

## Assessment Tasks

### 1 Online Quiz(zes)

#### Assessment Type

Online Quiz(zes)

#### Task Description

Each quiz will assess your understanding of the content presented within this unit as outlined below. Questions may be drawn from lectures, additional resources provided (e.g. prescribed readings) or tutorial presentations.

- As each quiz is online and open book, you will find it useful if you have produced your own notes from the lectures and that you are familiar with the unit information.
- Questions will be drawn from a resource bank, to allow tests to be different for each student.
- It is recommended that you have a calculator available when sitting the online quiz(zes).

**Each quiz can be accessed through the assessment tab on Moodle at the assigned time.**

- Each quiz will be marked out of 30 marks.
- You will have 30 minutes to complete each quiz.
- Open book conditions.

**Once started, each quiz cannot be paused or restarted. Only one attempt per quiz is permitted.**

**Please note:**

- It is your responsibility to ensure that you commence each online quiz before Friday 7:20 pm (AEST).
- The quiz will automatically close and submit completed answers once the allocated time has elapsed.
- The duration of each quiz is tailored to promote recall of fact, rather than research of answers unknown.



**Students are reminded that IT support from the university Information and Technology Division (TASAC) is only available during AEST business hours.**

This assessment is to be undertaken as an individual. Colluding with other students on non-group work tasks is considered academic misconduct, and may lead to action being taken the Deputy Dean of Learning and Teaching HMAS.

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

**Number of Quizzes**

2

**Frequency of Quizzes**

Other

**Assessment Due Date**

Quiz 1 will open at 8:00 am (AEST) on Thursday 4th August (Week 4) and will close at 8:00 pm (AEST) Friday 5th August. This quiz will assess the topics covered during weeks 1 to 3. Quiz 2 will open at 8:00 am (AEST) on Thursday 1st September (Week 7) and will close at 8:00 pm (AEST) Friday 2nd September. This quiz will assess the topics covered during Weeks 4 to 6.

**Return Date to Students**

Student results will be made available within two (2) weeks of assessment completion.

**Weighting**

40%

**Minimum mark or grade**

To PASS this assessment task, a minimum of 50% must be achieved for the combined 'overall' mark from quiz 1 and 2 (i.e. 30/60 marks overall).

**Assessment Criteria**

You will be required to answer a variety of online questions.

**Question responses will be assessed according to the:**

- use of appropriate terminology and descriptors as well as grammar and spelling
- student's ability to appropriately interpret presented sonographic images and cardiac assessment data
- student's ability to succinctly respond with accurate answers.

The number of marks allocated for each question will be indicated within the quiz. Question marks are allocated based on the accuracy, depth and breath of required responses.

Your score from each individual quiz will contribute 20% to your final grade. Thus, your combined score from the quizzes will contribute to 40% of your final unit grade (2 quizzes x 20% = 40%).

- The specific dates that each quiz opens and closes are outlined in the due description.
- Please note that the quizzes must be completed before the due date listed.
- In the absence of an approved extension, there will be no opportunity to complete the task after this date, and there will be no opportunity to apply a late penalty of five percent per day.
- Students will receive a mark of zero (or fail) for this assessment, if you have not completed it by the scheduled date and time and do not have an extension.

**Referencing Style**

- [Vancouver](#)

**Submission**

Online

**Submission Instructions**

The online quiz(ze)s will be accessible through the assessment tab on Moodle.

**Learning Outcomes Assessed**

- Compare the aetiology, pathophysiology, diagnostic assessment process and patient management strategy for a variety of cardiovascular disease processes
- Perform, analyse and contrast haemodynamic calculations on cardiac assessment data to formulate differential diagnoses

## Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 2 Echocardiography Skills Assessment

### Assessment Type

Practical Assessment

### Task Description

This practical assessment task requires you to complete a 2D, Colour and Spectral Doppler Practical Skills Assessment and a QLAB measurement assessment, to a '**Novice Level**' of competency. Professional and technical scanning requirements and measurement techniques are discussed in the unit lab manual, lab sessions, lectures and tutorials.

### This is a PASS/FAIL assessment.

This assessment task has multiple parts and components, all of which need to be successfully completed to achieve a 'PASS' overall.

### 2A. PART A: PRACTICAL SKILLS ASSESSMENT

Part A of the Echocardiography Skills Assessment incorporates both a **Professional** and **Technical** component and requires students to perform a comprehensive 2D, colour and spectral Doppler echocardiographic examination using ultrasound equipment.

**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.

In summary, this is an assessment of the pre-scan, scanning, and post-scan skills.

**Technical Component** The Technical component of the assessment evaluates the students' scanning technique, image optimisation, and ability to perform a complete Echocardiogram within a reasonable set time to a '**Novice level**' of competency.

The ARC tool details both 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 represents the echocardiographic examination performed.

At the end of the examination, the supervising tutor will acquire a variety of representative images. These images will be labelled as 'Acquired by tutor' and will be used during marking and moderation to ascertain achievable image quality.

**Time limit** The student will have **70 minutes** in total to complete both professional and technical components:

- **10 minutes** to complete the professional component
- **60 minutes** to complete the ECHO12003 2D, colour and spectral Doppler imaging protocol.

**Should a student FAIL, there is only ONE opportunity to re-sit either component of the Practical or Measurement assessment (whichever is applicable).**

### 2B. PART B: MEASUREMENT PERFORMANCE

Part B of this assessment task requires students to perform a series of offline measurements using the QLAB workstations.

**Time limit** A 35min time limit will be applied to facilitate measurement performance, image acquisition, labelling, and worksheet completion.

**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 you have not completed it by the scheduled date and time and do not have an extension.

Should a student FAIL, there is only ONE opportunity to re-sit either component of the Practical or Measurement assessment (whichever is applicable).

## Assessment Due Date

Students will be advised of Practical skills and Qlab assessment scheduling via the unit Moodle site.

## Return Date to Students

Students results will be made available within two (2) weeks of assessment completion.

## Weighting

Pass/Fail

## Assessment Criteria

Students will be practically assessed using the:

- **Assessment of Readiness for Clinical (ARC) tool. ECHOCARDIOGRAPHY SKILLS ASSESSMENT, PART A: Practical**
- **Assessment of Readiness for Clinical (ARC) tool. ECHOCARDIOGRAPHY SKILLS ASSESSMENT, PART B: Measurement performance**

Students are advised to carefully review these documents which are available on the unit Moodle site.

The Part A practical assessment includes both a Professional and Technical Component. Each component must be passed to pass PART A overall.

- To pass the Part A Professional and Technical components, all criteria must be demonstrated.
- 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.

Students will be provided with a singular opportunity to attempt the Practical Skills assessment and QLAB measurement assessment under **MOCK examination conditions**.

The MOCK assessment will be delivered as part of the routine laboratory sessions. There is no opportunity for rescheduling of missed laboratory sessions.

- Individual feedback will be provided to students regarding performance in MOCK assessments.
- Scanning feedback will be provided verbally by the tutor supervising individual student MOCK practical scanning assessments.
- Students will also receive a completed MOCK 2D, Colour and Spectral Doppler practical skills assessment ARC tool and QLAB measurement ARC tool following moderation.

## Re-evaluation options

In the event that you do not pass, you will be given only ONE (1) opportunity to re-sit the technical and/or professional components or QLab assessment (whichever is applicable).

Please be aware that the Echocardiogram practical skills tests 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 assessment and/or resit opportunities, if requested by the unit coordinator.

## Referencing Style

- [Vancouver](#)

## Submission

No submission method provided.

## Submission Instructions

Marking rubrics will be completed at the time of assessment by the practical supervisor. Rubrics will be loaded into Moodle for student review following moderation.

## Learning Outcomes Assessed

- Perform the standard echocardiographic protocol with colour and spectral Doppler

## Graduate Attributes

- Communication
- Problem Solving

- Critical Thinking
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

### 3 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 upcoming clinical placements.

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 provided to us.

This assessment will require you to treat each of your lab sessions as a scheduled "work shift" and to exhibit high quality professional attributes to ensure you are prepared to enter the work force with the skills required to provide safe patient care and professional behaviour.

- 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 all formal assessments.
- This includes participation in forums and online tutorials, labs, social media etiquette, phone calls, attitude towards peers and staff, and all official correspondence with university staff, peers, and community.

This assessment will require you to complete the following documentation, which forms part of your ECHO12008 Lab Manual. All forms are available under the Lab Documentation tab on the unit Moodle page.

This assessment task requires four (4) individual documents to be submitted.

1. A signed **Lab Agreement Form** to be uploaded by Monday 11th July 5.00 pm (AEST) Week 1 of term.
2. A signed **Consent Form - Echocardiographic Examination for Teaching Purposes** to be uploaded by Monday 11th July 5.00 pm (AEST) Week 1 of term.
3. A completed and signed **Professional Behaviour Assessment Rubric Form** to be uploaded by Friday 7th October 5.00 pm (AEST) Week 12 of term.
4. A completed **Lab Attendance Form** to be scanned and uploaded by Friday 7th October 5.00 pm (AEST) Week 12 of term.

This is a **PASS/FAIL assessment**. All assessment items must be graded as a PASS to pass the unit.

This assessment is marked using the Professional Behaviour Assessment (PBA) rubric and incorporates LiPs (lapses in professionalism).

To pass this unit, you need to obtain a minimum mark of 12/15 for your PBA, and can receive a maximum of three LiPs across all descriptors. For example: if a fourth LiP is issued, the maximum mark would be 11/15 and the assessment will be graded as a FAIL.

All interactions with staff and peers pertaining to this unit will be treated as a replica of the clinical work environment. You will be expected to demonstrate all of the professional behaviour that will be expected of you in a formal work environment.

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 settings 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 that you are aware of behavioural expectations.

You will be required to fill out a Formative Feedback Form for each of your labs, but not for the dates of your practical skills tests as outlined in the lab manual. Please note: Not routinely bringing Formative Feedback Forms to your lab for reflective feedback documentation and tutor signature; will warrant a LiP allocation.

It is very important that you familiarise yourself with the CODE OF CONDUCT in the Lab Manual as well as the ASA CODE OF CONDUCT and the CQU CODE OF CONDUCT. All of these documents are posted on the unit Moodle site for your information.

If unprofessional attitude or behaviour is reported by fellow classmates and not witnessed by a staff member, a written warning detailing the allegations will be issued to the student, and the student's response documented. If further evidence of an on-going unprofessional behaviour surfaces, then a LiP may be issued.

Any lack of professionalism displayed in the use of the Google Doc unmanned practice booking system (for example, changing the practise bookings of other students without consent, or accessing labs in excess of allocated entitlements), will result in an automatic LiP.

Up to THREE (3) LiPs can be issued before the assessment is graded as a FAIL.

**However, if any exhibited attitude or behaviour is deemed as unsafe or inappropriate for clinical practice, the professional behaviour assessment will be graded as a FAIL at the discretion of the unit coordinator.**

Note: Exemplary professional behaviour is highly valued by clinical supervisors. This information may be used to endorse students for placements if requested by clinical sites.

### **Assessment Due Date**

Lab Agreement Form and Consent Form - Sonographic Examination for Teaching Purposes are to be uploaded by 5.00 pm (AEST) Monday 11th July (Week 1). Professional Behaviour Assessment Rubric Form to be uploaded by 5.00 pm (AEST) on Friday 7th October (Week 12). Lab Attendance Form to be scanned and uploaded by 5.00 pm (AEST) on Friday 7th October (Week 12).

### **Return Date to Students**

Student results will be made available within two (2) weeks of assessment completion.

### **Weighting**

Pass/Fail

### **Assessment Criteria**

- You must upload all of the required documentation for this assessment by the due date and time to obtain a 'PASS'.
- All submitted documents must be correctly labelled and formatted to obtain a 'PASS'.
- If you are absent for a lab, please indicate the reason for this yourself on your formative feedback form and attendance record - a tutor's signature is not required.

### **Referencing Style**

- [Vancouver](#)

### **Submission**

Online

### **Submission Instructions**

ALL scanned documents must be appropriately labelled with student name, student number and document descriptor as illustrated. (Example identification: John SMITH\_S12345\_Lab Agreement Form) Documentation requested must be individually submitted as separate Word or PDF formatted documents. JPEG format is not acceptable. A total of 4 individual document submissions is required.

### **Learning Outcomes Assessed**

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

### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking

- Team Work
- Cross Cultural Competence
- Ethical practice

## 4 Formative Feedback and Self-reflection forms

### Assessment Type

Reflective Practice Assignment

### Task Description

The purpose of this assessment is to develop self-reflection skills by setting weekly goals and following up on progress. This assessment will require you to complete and submit:

4A. Seven (7) Formative Feedback Forms. Each form must include

- Self-reflection and goal setting
- Tutor feedback and signature

Each form must be completed before leaving the associated laboratory session.

4B. Mock Assessment Reflection Form. This form must include:

- Reflection of areas of strength and areas for improvements in preparation for the Skills Assessment.

The "Formative Feedback Forms and "Mock Assessment Reflection Form" are available on the ECHO12008 Moodle. Students must complete and upload both complete documents by the due date to achieve a pass.

### This is a PASS/FAIL assessment.

Formative Feedback Forms must be completed BEFORE leaving at the end of each lab (as you would be required to complete documentation for each patient's scan before the end of a clinical shift).

- Formative feedback forms must be signed off by the instructor who supervised your laboratory scanning session.
- If you are absent for a lab, please indicate the reason for this yourself on your formative feedback form - a tutor's signature is not required in this instance.
- Please note details on the Professional Behaviour Assessment Rubric Form, which further outlines the appropriate procedure for lab absences.

### Assessment Due Date

All forms (7 Formative Feedback Forms and Mock Assessment Reflection Form) are to be uploaded by 5pm (AEST) Monday 12th September (Week 9).

### Return Date to Students

Students results will be made available within two (2) weeks of assessment completion.

### Weighting

Pass/Fail

### Assessment Criteria

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

### Referencing Style

- [Vancouver](#)

### Submission

Online

### Submission Instructions

ALL scanned documents must be appropriately labelled with student name, student number and document descriptor as illustrated (Example identification: John SMITH\_S12345\_Formative Feedback and Self Reflection Form 1). Documentation requested must be individually submitted as separate Word or PDF formatted documents. JPEG format is not acceptable. A total of 8 individual document submissions is required.

### Learning Outcomes Assessed

- Apply reflective feedback to professional practice improvement.

## Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 5 Online Test

### Assessment Type

Online Test

### Task Description

The online test will assess your understanding of the content presented within this unit. Questions may be drawn from lectures, additional resources provided (e.g. prescribed readings) or tutorial presentations.

- **Perusal time and online test duration will be 130 minutes in total.**
- **Open book conditions.**
- **It is recommended that you have a calculator available when sitting the online test.**

This assessment is to be undertaken as an individual. Colluding with other students on non-group work tasks is considered academic misconduct and may lead to action being taken the Deputy Dean of Learning and Teaching HMAS.

- Once started, the online test cannot be paused or restarted. Only one attempt is permitted.
- The online test will automatically close and submit completed student answers once the allocated time has elapsed.
- The duration of this test is tailored to promote recall of fact, rather than research of answers unknown.
- You will be required to answer a variety of online questions. Questions may include multiple choice, short answer, essay style or image interpretation format.

The number of marks allocated for each question will be indicated within the online test. Question marks are allocated based on the accuracy, depth and breath of required responses.

Students are reminded that IT support from the university Information and Technology Division (TASAC) is only available during AEST business hours. It is recommended that the online test is completed during business hours.

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 you have not completed it by the scheduled date and time and do not have an approved extension.

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

### Assessment Due Date

The online test will open at 8:00 am (AEST) on Thursday 13th October, and will close at 8:00 pm (AEST) on Friday 14th October.

### Return Date to Students

Individual student results will be made available within two (2) weeks of assessment completion.

### Weighting

60%

### Minimum mark or grade

50%

### Assessment Criteria

Students will be required to answer a variety of online questions.

#### Questions:

- will be drawn from a resource bank, to allow tests to be different for each student.
- may include short answer, essay style, multiple choice or film viewing questions.
- will require students to be familiar with both normal and pathological echocardiographic and anatomical images.

#### Question responses will be assessed according to the:

- use of appropriate terminology and descriptors as well as grammar and spelling.
- student's ability to appropriately interpret presented sonographic images and cardiac assessment data.
- student's ability to succinctly respond with accurate answers.

**Referencing Style**

- [Vancouver](#)

**Submission**

Online

**Submission Instructions**

The online test will be accessible through the assessment tab on Moodle.

**Learning Outcomes Assessed**

- Compare the aetiology, pathophysiology, diagnostic assessment process and patient management strategy for a variety of cardiovascular disease processes
- Perform, analyse and contrast haemodynamic calculations on cardiac assessment data to formulate differential diagnoses

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy



## 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