



# ECHO12006 Cardiac Science

## Term 1 - 2018

Profile information current as at 04/05/2024 01:54 pm

All details in this unit profile for ECHO12006 have been officially approved by CQUUniversity 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 assessment and management of cardiac conditions requires comprehensive knowledge of cardiac pathophysiology, diagnosis and treatment. By studying the pathophysiology, medications, cardiac assessment skills and data relevant to common cardiac conditions, you will be armed with the necessary knowledge to discuss given clinical scenarios. With this knowledge you will assess cardiac ultrasound and other cardiac data as it relates to clinical cases and discuss clinical problems within an ethical framework of best practice. In preparation for clinical placement you will learn to operate the tools needed to analyse cardiac structure and function by performing echocardiographic examination and electrocardiogram (ECG) studies. You will analyse the outcomes of these studies and other cardiac data presented in simulated clinical cases. You will demonstrate the professional knowledge, attitude and skills required to perform practical cardiac assessment in a clinical setting. This will be assessed within a simulated environment. This unit prepares you for entry into 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 2*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

### Pre-requisites or Co-requisites

Pre-requisite ECHO11004 Cardiac Clinical Unit 1 AND Co-requisite MPAT12001 Medical Pathophysiology AND 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 - 2018

- 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: 40%

#### 2. **Objective Structured Clinical Examinations (OSCEs)**

Weighting: Pass/Fail

#### 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](#).

## Unit Learning Outcomes

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

1. Differentiate the aetiology and related cardiac assessment data of common cardiovascular pathologies
2. Articulate the effects of major medication groups on the cardiovascular system
3. Perform the standard two dimensional echocardiographic protocol
4. Analyse case-based clinical information to calculate ventricular function, formulate differential diagnoses and plan patient management strategies
5. Apply professional behaviour, teamwork and communication skills consistent with safe practice
6. Apply constructive feedback to professional practice improvement
7. Perform, and interrogate the outcomes of, electrocardiogram studies (ECG).

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
<b>1 - Written Assessment - 40%</b>	•	•		•			
<b>2 - Objective Structured Clinical Examinations (OSCEs) - 0%</b>							•
<b>3 - Practical Assessment - 0%</b>			•				
<b>4 - Performance - 0%</b>					•		
<b>5 - Examination - 60%</b>	•	•		•			
<b>6 - Reflective Practice Assignment - 0%</b>							•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
<b>1 - Communication</b>	•	•	•	•	•	•	•
<b>2 - Problem Solving</b>	•	•	•	•	•	•	•
<b>3 - Critical Thinking</b>	•	•	•	•	•	•	•
<b>4 - Information Literacy</b>	•	•	•	•	•	•	•

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
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 - 40%	•	•	•	•		•	•	•		
2 - Objective Structured Clinical Examinations (OSCEs) - 0%	•	•	•	•		•	•	•		
3 - Practical Assessment - 0%	•	•	•	•		•	•	•		
4 - Performance - 0%	•	•	•	•	•	•	•	•		
5 - Examination - 60%	•	•	•	•		•				
6 - Reflective Practice Assignment - 0%	•	•	•	•		•	•	•		

## Textbooks and Resources

### Textbooks

ECHO12006

#### **Prescribed**

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

Edition: 3rd (2017)

Authors: Bonita Anderson

Echotext Pty Ltd

Brisbane , Qld , Australia

ISBN: 9780992322212

Binding: Other

ECHO12006

#### **Prescribed**

#### **Introduction to 12-Lead ECG - The Art of Interpretation**

Edition: 2nd (2015)

Authors: Tomas B. Garcia, MD

Jones and Bartlett Learning

Burlington , MA , USA

ISBN: 978-1-284-04088-3

Binding: Other

ECHO12006

#### **Prescribed**

#### **Pathophysiology of Heart Disease**

Edition: 6th (2016)

Authors: Leonard S. Lily

Wolters Kluwer

Philadelphia , PA , USA

ISBN: 978-1-4511-9275-9

Binding: Other

ECHO12006

#### **Prescribed**

#### **The Cardiac Catheterization Handbook**

Edition: 6th (2016)

Authors: Kern, Sorajja, Lim

Elsevier

Philadelphia , PA , USA

ISBN: 978-0-323-34039-7

Binding: Other

### 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

**Paula Boucaut** Unit Coordinator  
[p.boucaut@cqu.edu.au](mailto:p.boucaut@cqu.edu.au)

## Schedule

### Week 1 - 05 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"><li>• How to obtain and optimise the normal echocardiographic windows.</li><li>• ECG rate and axis determination.</li></ul>	<p>Anderson, B. (2017). Echocardiography. The Two Dimensional Echocardiographic Examination. Chapter 2, pages 33-69</p> <p>Garcia, T. (2015). Introduction to 12-Lead ECG. The Art of Interpretation. Chapter 7, pages 57-61 and Chapter 10, pages 123-131</p>	<p>COMPULSORY LAB INDUCTION - note campus specific days - time TBA (Monday - Sydney Campus; Thursday - Perth Campus)</p> <p>You are required to upload your Lab Agreement and Consent Form by 5PM AEST FRIDAY.</p>

### Week 2 - 12 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"><li>• Basic 2D and MMode measurements including optimisation and how to assess IVC collapsibility.</li><li>• ECG identification of Heart block and Infarction</li></ul>	<p>Anderson, B. (2017). Echocardiography. The Two Dimensional Echocardiographic Examination. Chapter 2, pages 33-69; and Chapter 3, pages 71-81</p> <p>Garcia, T. (2015). Introduction to 12-Lead ECG. The Art of Interpretation. Chapter 1, pages 133-154 and Chapter 10, pages 183-210</p>	<p>Lab #1 Friday</p>

### Week 3 - 19 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"><li>• Areas, volumes and Simpson's calculation; and the complete 2D echo protocol.</li><li>• ECG identification of Infarction and Arrhythmia.</li></ul>	<p>Anderson, B. (2017). Echocardiography. The Two Dimensional Echocardiographic Examination. Chapter 9, pages 153-185</p> <p>Garcia, T. (2015). Introduction to 12-Lead ECG. The Art of Interpretation. Chapter 10, pages 183-210</p>	<p>Lab #2 Friday</p>

### Week 4 - 26 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"><li>• Left ventricular systolic function and factors influencing LV performance.</li><li>• Bringing it all together - Interpretation of the ECG.</li></ul>	<p>Anderson, B. (2014). A Sonographer's Guide to the Assessment of Heart Disease. Chapter 2, pages 19-29</p>	

### Week 5 - 02 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
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<ul style="list-style-type: none"> <li>Regional left ventricular systolic function and complications of myocardial infarction.</li> <li>Revision of Arrhythmia's and Heart block with Nicholas Kerr.</li> </ul>	<p>Anderson, B. (2017). Echocardiography. The Two Dimensional Echocardiographic Examination. Chapter 9, pages 153-185</p> <p>Anderson, B. (2014). A Sonographer's Guide to the Assessment of Heart Disease. Chapter 2, pages 29-39</p> <p>Garcia, T. (2015). Introduction to 12-Lead ECG. The Art of Interpretation. Chapter 11, pages 133-156</p>	<p>Lab #3 Friday</p>
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**Vacation Week - 09 Apr 2018**

Module/Topic	Chapter	Events and Submissions/Topic
<p>Unmanned Scanning Echo Practice available on Tuesday</p>		

**Week 6 - 16 Apr 2018**

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"> <li>Left and right ventricular pathologies presenting with abnormal systolic function.</li> <li>Radiation Safety and Haemodynamics in the Catheterisation Laboratory.</li> </ul>	<p>Anderson, B. (2014). A Sonographer's Guide to the Assessment of Heart Disease. Chapter 4, pages 110; Chapter 5, pages 138-139 and page 141</p> <p>Kern, J. (2016). The Cardiac Catheterization Handbook. (6th Edn.) Chapter 1, pages 1-54 and Chapter 4, pages 175-238</p>	<p>Lab #4 Friday</p>

**Week 7 - 23 Apr 2018**

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"> <li>Pericardial effusion and differential diagnoses.</li> <li>Common pathologies in the Cardiac Catheterisation Laboratory.</li> </ul>	<p>Anderson, B. (2014). A Sonographer's Guide to the Assessment of Heart Disease. Chapter 12, pages 346-352</p> <p>Kern, J. (2016). The Cardiac Catheterization Handbook. (6th Edn.) Chapter 3, pages 99-174</p>	<p>Lab #5 Friday</p> <p><b>Written Assessment</b> Due: Week 7 Friday (27 Apr 2018) 5:00 pm AEST</p>

**Week 8 - 30 Apr 2018**

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"> <li>Pharmacology Part 1.</li> <li>Transducers in the Catheterisation Laboratory - Terminology and Basic Concepts.</li> </ul>	<p>Lily, L. (2016). Pathophysiology of Heart Disease (6th Edn.); Chapter 17, pages 400-454</p>	<p>Lab #6 Friday (Mock Skills Assessment)</p> <p><b>ECG OSCES</b> Due: Week 8 Wednesday (2 May 2018) 5:00 pm AEST</p>

**Week 9 - 07 May 2018**

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"> <li>Pharmacology Part 2.</li> <li>Transducers in the Catheterisation Laboratory - Recording Haemodynamic Pressure.</li> </ul>	<p>Lily, L. (2016). Pathophysiology of Heart Disease (6th Edn.); Chapter 17, pages 400-454</p> <p>Kern, J. (2016). The Cardiac Catheterization Handbook. (6th Edn.) Chapter 4, 175-238</p>	

**Week 10 - 14 May 2018**

Module/Topic	Chapter	Events and Submissions/Topic

- Applying knowledge learnt in case based clinical scenarios.
- Right Heart Catheterisation.

Kern, J. (2016). The Cardiac Catheterization Handbook. (6th Edn.) Chapter 4, pages 177-178

**Practical Skills Assessment**

scheduled for Friday 18th May. Students will be advised of individual schedule closer to date. Students need to be available over the entire course of the day, and may be required to act as a patient model for a peer's examination. Measurement assessment will be conducted offline using Qlab workstations in computer laboratory.

**2D Echocardiography Skills**

**Assessment** Due: Week 10 Friday (18 May 2018) 5:00 pm AEST

**Week 11 - 21 May 2018**

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"> <li>• Applying knowledge learnt in case based clinical scenarios.</li> <li>• Calculating Cardiac Output in the catheterisation Laboratory.</li> </ul>	Kern, J. (2016). The Cardiac Catheterization Handbook. (6th Edn.) Chapter 3, pages 180-182, and pages 193-199	

**Week 12 - 28 May 2018**

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"> <li>• Revision and exam preparation.</li> </ul>		<p>In the event of a failed Skills Assessment in week 10, re-sit assessments will be held Friday this week.</p> <p><b>Professional Behaviour Assessment</b> Due: Week 12 Friday (1 June 2018) 4:00 pm AEST</p> <p><b>Reflective Practice Assignment</b> Due: Week 12 Friday (1 June 2018) 4:00 pm AEST</p>

**Review/Exam Week - 04 Jun 2018**

Module/Topic	Chapter	Events and Submissions/Topic
		<p>For more information about the examination timetable, visit the <a href="#">MYCQU Student Portal</a></p>

**Exam Week - 11 Jun 2018**

Module/Topic	Chapter	Events and Submissions/Topic



## Term Specific Information

The unit coordinator for ECHO12006 is Paula Boucaut. In the first instance, students are requested to utilise the Moodle Q&A forum for content related questions. As there are multiple content experts teaching into this unit, this enables the most appropriate staff member to respond to your forum post. If the query is of a personal nature, please email p.boucaut@cqu.edu.au, or phone my office number (07) 3203 4108.

Weekly tutorials will be held during the term. Specific times and meeting IDs will be posted on the Moodle site.

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.

Skills labs for this unit are mandatory. The Lab Induction is compulsory and failure to attend with result in a 'lapse in professionalism'. Labs missed for a valid reason require supporting documentation, and students are advised to contact the unit coordinator to organise time to make up for the missed scanning time when the lab is available for practice sessions. Any lab missed without valid reason or supporting documentation will warrant a 'lapse in professionalism'. Please pay close attention to the lab schedule for this unit. Students are required to adhere to the Course Dress code when using the ultrasound simulation labs and a zero-tolerance policy will be followed - both of these aspects are covered by the Professional Behaviour assessment and failure to comply will result in 'lapse in professionalism'. Important: You MUST be available all of week 12 for re-sits or to be a patient for the practical re-sits. Re-sits for all practical assessments will take place in week 12.

## Assessment Tasks

### 1 Written Assessment

#### Assessment Type

Written Assessment

#### Task Description

You are to write a scholarly essay, which cites a variety of sources that support your discussion on the following topic:

"Left ventricular hypertrophy is commonly seen in patients presenting with chronic systemic hypertension. However, it can also occur in response to a valvular cardiac abnormality or in athletes who participate in endurance training."

Your essay should include discussion of:

- relevant pathophysiology
- signs and symptoms
- predisposing factors
- electro- and echocardiographic presentation and evaluation
- disease assessment, staging and management, including medications if applicable

Word count: 1000 words +/- 10%. Word count does not include headings or references, but does include diagram explanations and labeling. Submissions too brief or too lengthy will be penalised as per the rubric provided. Excess words will not be assessed.

Submission: please use word doc format. On-line submission on Moodle site.

Referencing: Vancouver

#### Assessment Due Date

Week 7 Friday (27 Apr 2018) 5:00 pm AEST

Electronic submission of word document via Moodle site.

#### Return Date to Students

Week 9 Friday (11 May 2018)

#### Weighting

40%

#### Minimum mark or grade

50%

#### Assessment Criteria

The learning outcomes assessed in this assessment item are:

1. Differentiate the aetiology and related cardiac assessment data of common cardiovascular pathologies
2. Articulate the effects of major medication groups on the cardiovascular system
4. Analyse case-based clinical information to calculate ventricular function, formulate differential diagnoses and

plan patient management strategies

With this in mind, your essay will be assessed on your ability to:

- Locate and critically evaluate information regarding the pathology
- Recognise and discuss pertinent clinical information
- Describe practical aspects of electro- and echocardiography
- Produce a scholarly essay, including academic writing and referencing

This task carries a 40% weighting toward the final unit grade. A marking rubric for this assessment task can be found on the Moodle unit site.

### Referencing Style

- [Vancouver](#)

### Submission

Online

### Submission Instructions

Electronic submission of word document via Moodle site.

### Learning Outcomes Assessed

- Differentiate the aetiology and related cardiac assessment data of common cardiovascular pathologies
- Articulate the effects of major medication groups on the cardiovascular system
- Analyse case-based clinical information to calculate ventricular function, formulate differential diagnoses and plan patient management strategies

### Graduate Attributes

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

## 2 ECG OSCES

### Assessment Type

Objective Structured Clinical Examinations (OSCEs)

### Task Description

This assessment task has 2 components:

*Component A:*

The student will be required to accurately perform an ECG recording.

*Component B:*

Applying the step-wise 'ECG interpretation method' students will be required to correctly diagnose 6 ECG's from tracings which will be supplied for interpretation.

- This is a PASS/FAIL assessment with no weighting toward the final overall unit grade. A PASS must be obtained to pass unit overall.
- To PASS, a student will be required to competently perform a 12 Lead ECG examination, and demonstrate a 'Novice level' of interpretation competency (60% GRADE).
- The assessment task has a 1 hour time limit, during which both components of assessment must be successfully completed.
- One reattempt will be permitted within week 9 should a student fail the first OSCE attempt. Failing students will be individually notified of re-sit dates. A failing student will only be required to re-sit the task component that they did not successfully pass.

### Assessment Due Date

Week 8 Wednesday (2 May 2018) 5:00 pm AEST

ECG OSCEs will be conducted on Wednesday 2nd May 2018 (week 8). No results will be released to the students on the day of OSCE examination. Students will be advised of individual examination times.

### Return Date to Students

Week 9 Wednesday (9 May 2018)

Results will be notified to students by Wednesday Week 9 after moderation. Failing students will be provided ONE re-sit opportunity during week 9. Students will be individually notified of time and locality.

### **Weighting**

Pass/Fail

### **Minimum mark or grade**

60%

### **Assessment Criteria**

Both components of this assessment task must be completed within a 1 hour time period.

Component A:

The student will be assessed on correct ECG performance technique.

Component B:

Students will be presented with 6 different ECG tracings, and will be asked to answer 5 specific questions relating to each tracing. Each ECG question will be worth 1 mark.

Questions will be based on the step-wise interrogation method of analysis, which students have been introduced to during lectures and tutorial sessions.

OSCEs are marked like a written examination, using standardised model answers. A rubric for this assessment task is available for review on the Moodle site.

Students will not be required to bring a calculator or draft paper.

This is a PASS/FAIL assessment with no weighting toward the final overall unit grade. A PASS must be obtained to pass the unit overall. To PASS, a student must competently demonstrate how to perform an ECG (Component A), and demonstrate a 'novice level' of interpretation competency - 60% GRADE (Component B). Both Component A and B of this task must be successfully passed. Failure of either component, will result in failure of the assessment task overall.

### **Referencing Style**

- [Vancouver](#)

### **Submission**

Offline

### **Submission Instructions**

The examiner will record verbal student responses. Student will verify transcription is accurate by authenticating record with signature. Examiner will retain all documentation for moderation and marking.

### **Learning Outcomes Assessed**

- Perform, and interrogate the outcomes of, electrocardiogram studies (ECG).

### **Graduate Attributes**

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

## **3 2D Echocardiography Skills Assessment**

### **Assessment Type**

Practical Assessment

### **Task Description**

This is a PASS/FAIL assessment. Professional and technical scanning requirements are discussed in the unit lab manual, lab sessions, lectures and tutorials.

These requirements incorporate two components:

*Professional (pre-scan, during and post-scan) requirements:*

- Apply 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 echocardiographic study:*

- Students will be required to demonstrate appropriate echocardiographic scanning technique, image optimisation, and acquisition, in a reasonable time period to an 'novice level' of competency. A scanning time limit of 1 hour

- will be applied to image acquisition.
- Whilst simulation laboratories will prepare you for completion of entire 2D echocardiography study, under examination conditions you may be requested to complete only a portion of an entire study. You will not be advised prior to the assessment of the abbreviated format.
- Students will be required to perform a series of offline measurements using the Qlab workstations. A 30 min time limit will be applied to measurement acquisition.

Students will be assessed using the 'Assessment of Readiness for Clinical' (ARC) tool, which is available on the unit Moodle site, and students are advised to carefully review this document. To pass this assessment, both the professional and technical components must be graded as a 'pass'.

The components are graded separately, so that if one is passed and the other is not, only the failed component must be repeated to pass. If the student has failed only the professional component, the full practical scanning assessment will be repeated, but the student will only be marked on the professional component. There is only ONE opportunity to re-sit either component of the assessment item.

### **Assessment Due Date**

Week 10 Friday (18 May 2018) 5:00 pm AEST

Students will be advised of individual times for practical assessment prior to examination. No marks or feedback will be given at the time of assessment.

### **Return Date to Students**

Moderation of assessment marks needs to take place prior to students being advised of practical assessment results. Students will be advised as soon as possible of their practical assessment results, along with resit assessment details which will be held on Friday 1st June / Week 12.

### **Weighting**

Pass/Fail

### **Minimum mark or grade**

Novice competency level - minimum 60% mark to obtain a PASS for this assessment component. This assessment does not carry a weighting toward the final unit grade.

### **Assessment Criteria**

The assessment criteria to achieve a 'PASS' is as follows:

A pass rate of 60% of available marks in both the technical and professional components, AND all bold points in the professional component must be achieved in order to pass the assessment, ARC tools are posted on the unit Moodle site. Re-evaluation Options:

In the event that a student does not achieve a minimum 60% OR fails one of the bolded items in the professional component of the ARC tool, they will be given ONE opportunity to re-sit the technical and/or professional components in week 12. If the student has failed only the professional component, the full practical scanning assessment will be repeated, but the student will only be marked on the professional component.

Please be aware that assessments will be video recorded for moderation purposes. The videos will not be released to students for review.

### **Referencing Style**

- [Vancouver](#)

### **Submission**

Offline

### **Learning Outcomes Assessed**

- Perform the standard two dimensional echocardiographic protocol

### **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

The purpose of this assessment is to prepare you for professional behaviour, attendance and documentation responsibilities on clinical placement. When working clinically, patients and physicians rely on quick, efficient and complete documentation to issue treatment.

This assessment will require you to complete the documentation set forth in the ECHO12006 Lab Manual.

This includes:

- A signed Lab Agreement and Consent Form - Sonographic Examination for Teaching Purposes to be uploaded in Week 1
- A completed and signed Professional Behaviour Assessment Rubric Form to be uploaded in Week 12
- A completed LAB Attendance Page to be scanned and uploaded in Week 12

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), and to have it signed off by your instructor.

Please note behavioural expectations for this, and all other, skills based units in this course. These are clearly outlined in the [Lab Agreement available HERE](#), and the [Professional Behaviour Assessment available HERE](#).

## Absenteeism / What you need to know if you are off sick:

Skills labs for this unit are mandatory. You must notify staff and the unit coordinator before the start of compulsory labs if you are not able to attend - failure to notify staff (email, phone) before the start of a missed lab will result in a LiP point except in extraordinary circumstances. In the workplace, it is imperative that colleagues and patients who are depending on you are aware of whether you are attending your shift or not. Labs missed for a valid reason require supporting documentation, and students are advised to contact the unit coordinator to organise time to make up for the missed scanning time during practice sessions as soon as possible after missing the lab. Any lab missed without valid reason and supporting documentation, and/or prior approval will warrant a LiP point.

Sick Certificates:

Medical or health-related certificates must be in the approved formats articulated in the *CQUniversity Assessment Policy and Procedure (HE Coursework)*, section 4.53.

Please note, 4.53(f), *A required medical or health-related certificate 'in the approved form' meets all the following criteria: Contains sufficient evidence to enable an informed decision regarding the application. Non-specific statements that are not acceptable include but are not limited to the following: "the student is not fit for duty" and "the student is suffering from a medical condition or illness". A statement that "the patient is, in my opinion, suffering from a medical condition, the exact nature of which I cannot divulge for reasons of patient privacy" would be acceptable.*

You must notify staff before beginning scanning on any day (compulsory labs, manned practice, unmanned practice, and practical skills assessments) if you are injured or ill. In the event that your condition could harm or negatively impact either yourself or those around you (e.g. put you at risk of exacerbating an injury, or pass on viral or bacterial infections to other students and staff), you will be sent home and, in the event of it being a compulsory lab or practical skills assessment, will need to provide acceptable medical documentation for your absence, as described above.

Students who are sick and/or injured and cannot attend a practical skills assessment on the scheduled day must notify the unit coordinator (email, phone) and local campus staff (in person, phone, email) before the start of their assessment. The practical skills assessment will be postponed to another day.

You must upload all of the required documentation for this assessment by the due date and time 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.

## Assessment Due Date

Week 12 Friday (1 June 2018) 4:00 pm AEST

You will be required to upload your signed Lab Agreement and Consent Form in week 1. You will be required to upload all 8 of your Formative Feedback Forms, the Mock Skills feedback form, your Scan Lab Attendance Page, and a completed and signed Professional Behaviour Assessment Rubric form by week 12.

## Return Date to Students

A PASS/FAIL grade will appear in grade books within 7 working days after due date.

## Weighting

Pass/Fail

## Assessment Criteria

- PASS/FAIL assessment.
- To obtain a 'PASS', all documentation must be completed correctly and submitted on or before the corresponding due date and time.
- No more than THREE Lapses in Professionalism are permitted to obtain a 'PASS'
- All documents must be legible and uploaded in PDF format only.

## Referencing Style

- [Vancouver](#)

## Submission

Online

## Submission Instructions

Online in PDF format only.

## Learning Outcomes Assessed

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

## Graduate Attributes

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

# 5 Reflective Practice Assignment

## 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 5 Formative Feedback Forms and one Mock Skills Feedback form to be uploaded in Week 12. 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), and to have it signed off by your instructor. You must upload all of the required documentation for this assessment by the due date and time to obtain a 'PASS'.

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. Please note details under Assessment 4 (Professional Behaviour Assessment) which outlines the procedures for lab absences.

## Assessment Due Date

Week 12 Friday (1 June 2018) 4:00 pm AEST

You will be required to upload all 5 of your Formative Feedback Forms and the Mock Skills Feedback form by Friday Week 12 (4.00pm)

## Return Date to Students

A PASS/FAIL grade will appear in grade books within 7 working days after the due date.

## Weighting

Pass/Fail

## Assessment Criteria

- PASS/FAIL assessment.
- To obtain a 'PASS', all documentation must be completed correctly and submitted on or before the corresponding due date and time.
- All documents must be legible and uploaded in PDF format only.

## Referencing Style

- [Vancouver](#)

**Submission**

Online

**Submission Instructions**

Online submission in PDF format only.

**Learning Outcomes Assessed**

- Apply constructive feedback to professional practice improvement

**Graduate Attributes**

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

## Examination

**Outline**

Complete an invigilated examination.

**Date**

During the examination period at a CQUniversity examination centre.

**Weighting**

60%

**Length**

180 minutes

**Minimum mark or grade**

50%

**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