



# MEDI12003 *Imaging Procedures 1*

## Term 1 - 2021

Profile information current as at 25/04/2024 11:56 pm

All details in this unit profile for MEDI12003 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

## General Information

### Overview

On successful completion of this unit, you will be able to demonstrate the knowledge and skills required to perform routine radiographic examinations of the appendicular skeleton, shoulder, pelvis, thorax and abdomen on an ambulant adult at an advanced beginner level. You will demonstrate high levels of patient care and radiation safety. Principles of evidence-based practice will be introduced. You will develop skills to effectively evaluate radiographs with regard to image quality and determine if an image is diagnostic. The principles of image interpretation will be introduced and common trauma/disease processes of the chest, abdomen and musculoskeletal system explored. There will be a large practical and simulated experiential learning element of this unit performed in the digital radiological laboratories and imaging workstations to help develop and reinforce knowledge, understanding, basic clinical skills and a solid foundation of patient care. This unit will prepare you for your first formal clinical placement.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

Corequisites: MEDI12001 Radiation Science MEDI12002 Science and Instrumentation 1 Pre-requisites: BMSC11001 Human Body Systems 1 BMSC11002 Human Body Systems 2 ESSC11004 Study and Research Skills for Health Sciences MEDI11001 Fundamentals of Imaging Professions MEDI11003 Relational Anatomy MEDI11004 Professional Practice MEDI11005 Patient Care in the Allied Health Professions

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 - 2021

- Mackay

### 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 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 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. **Practical Assessment**

Weighting: Pass/Fail

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

Weighting: Pass/Fail

#### 3. **Practical Assessment**

Weighting: Pass/Fail

#### 4. **In-class Test(s)**

Weighting: 40%

#### 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](#).

## Previous Student Feedback

### Feedback, Recommendations and Responses

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

#### Feedback from Student feedback - Unit evaluation

##### Feedback

Having access to recorded lectures allowed students to engage with the unit material at a time and pace that suited them.

##### Recommendation

Maintain the use of pre-recorded lectures to allow students the flexibility of accessing the unit material in a time that is convenient for them.

#### Feedback from Unit Coordinator feedback

##### Feedback

Towards the end of term, the medical imaging virtual reality (VR) system was modified by the provider to an on-line version that could be accessed by students from home, assisting with their practical application of imaging knowledge. This supported student revision with off-campus flexibility.

##### Recommendation

Investigate the continued use of the desk-top VR system as a medical imaging learning tool and its use from home for students.

## Unit Learning Outcomes

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

1. Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults
2. Demonstrate patient care and professional behaviours in the simulated clinical environment
3. Assess radiographs for technical sufficiency
4. Discuss methods to modify a radiographic examination to improve technical sufficiency and/or better demonstrate required anatomy
5. Identify radiographic appearances of normal anatomical structures, common normal variants and common pathologies of the appendicular skeleton, shoulder girdle, pelvic girdle, thorax and abdomen
6. Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for a radiographic examination and in discussing radiographic images and their appearances
7. Discuss the indications for, anatomical features demonstrated by and technical set-ups, patient care requirements and specific imaging goals of the various radiographic examinations of the upper and lower extremities, shoulder and pelvic girdles, thorax and abdomen.

This unit maps to the following components of the Medical Radiation Practice Board of Australia's Professional Capabilities for Medical Radiation Practice (2020 version):

- *Domain 1 Medical radiation practitioner: capabilities 1, 2, 4, 6 and 7*
- *Domain 1A Diagnostic radiographer: capability 1*
- *Domain 2 Professional and ethical practitioner: capabilities 1 and 2*
- *Domain 3 Communicator and collaborator: capability 1*
- *Domain 4 Evidence-informed practitioner: capabilities 1 and 2*
- *Domain 5 Radiation safety and risk manager: capabilities 1 and 2*

## 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 - Practical Assessment - 0%	•	•					
2 - Practical Assessment - 0%	•	•					
3 - Practical Assessment - 0%		•					
4 - In-class Test(s) - 40%	•		•	•	•	•	•
5 - Online Test - 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 - Practical Assessment - 0%	•	•		•		•	•	•		
2 - Practical Assessment - 0%	•	•		•		•	•	•		
3 - Practical Assessment - 0%	•	•	•		•		•			

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
4 - In-class Test(s) - 40%	•	•						•		
5 - Online Test - 60%	•	•						•		

## Textbooks and Resources

### Textbooks

MEDI12003

#### Prescribed

#### **Accident and Emergency Radiology: A Survival Guide**

3rd Edition (2015)

Authors: Raby, Berman, De Lacey

Elsevier

Sydney , NSW , Australia

ISBN: 9780702042324

Binding: Paperback

MEDI12003

#### Prescribed

#### **Bontrager's Handbook of Radiographic Positioning and Techniques**

9th Edition (2018)

Authors: John Lampignano & Leslie E. Kendrick

Elsevier

St.Louis , Missouri , USA

ISBN: 9780323485258

Binding: Spiral

MEDI12003

#### Prescribed

#### **Bontrager's Textbook of Radiographic Positioning and Related Anatomy**

9th Edition (2018)

Authors: John Lampignano & Leslie E. Kendrick

Elsevier

St. Louis , Missouri , USA

ISBN: 9780323399661

Binding: Hardcover

#### **Additional Textbook Information**

These textbooks will also be used for MEDI12006 and MEDI13006.

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

**You will need access to the following IT resources:**

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

## Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Natalie Sciascia** Unit Coordinator  
[n.sciascia@cqu.edu.au](mailto:n.sciascia@cqu.edu.au)

## Schedule

### Week 1 - 08 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Radiographic Technique & Radiography of the Fingers & Thumb	Bontrager's Textbook Ch 4 Bontrager's Handbook Ch 2	Simulated radiographic techniques lab & imaging lab - Fingers & Thumb

### Week 2 - 15 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Hand & Wrist	Bontrager's Textbook Ch 4 Bontrager's Handbook Ch 2	Simulated radiographic techniques lab & imaging lab - Hand & Wrist On-campus tutorial

### Week 3 - 22 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Forearm & Elbow	Bontrager's Textbook Ch 4 Bontrager's Handbook Ch 2	Simulated radiographic techniques lab & imaging lab - Forearm & Elbow On-campus tutorial

### Week 4 - 29 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Humerus & Shoulder Girdle	Bontrager's Textbook Ch 5 Bontrager's Handbook Ch 3	Public Holiday - Good Friday Simulated radiographic techniques lab - Humerus & Shoulder On-campus tutorial

### Week 5 - 05 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Review of the Upper Extremity		Public Holiday - Easter Monday Simulated radiographic techniques lab - Assessment practice <b>Practical Assessment 1</b> - Friday 9th April 2021

### Vacation Week - 12 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
VACATION WEEK		

### Week 6 - 19 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Abdomen	Bontrager's Textbook Ch 3 Bontrager's Handbook Ch 9	Simulated radiographic techniques lab - Abdomen Simulated radiographic imaging lab - Abdomen, Shoulder & Humerus On-campus tutorial <b>Reflection &amp; Action Plan</b> - due Friday 23rd April 2021

### Week 7 - 26 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Thorax	Bontrager's Textbook Ch 2 & 10 Bontrager's Handbook Ch 1 & 7	Public Holiday - Anzac Day Simulated radiographic techniques lab & imaging lab - Thorax

**Week 8 - 03 May 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Toes, Foot & Calcaneus	Bontrager's Textbook Ch 6 Bontrager's Handbook Ch 4	Public Holiday - Labour Day Monday Simulated radiographic techniques lab & imaging lab - Toes, Foot & Calcaneus

**Week 9 - 10 May 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Ankle & Tibia/Fibula	Bontrager's Textbook Ch 6 Bontrager's Handbook Ch 4	Simulated radiographic techniques lab & imaging lab - Ankle & Tibia/Fibula On-campus tutorial

**Week 10 - 17 May 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Knee & Femur	Bontrager's Textbook Ch 6 & 7 Bontrager's Handbook Ch 4 & 5	Simulated radiographic techniques lab & imaging lab - Knee & Femur On-campus tutorial  <b>In-class Test</b> Due: Week 10 Thursday (20 May 2021) 1:00 pm AEST

**Week 11 - 24 May 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Pelvis & Hips	Bontrager's Textbook Ch 7 Bontrager's Handbook Ch 5	Simulated radiographic techniques lab & imaging lab - Pelvis & Hips On-campus tutorial

**Week 12 - 31 May 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Consolidation		Simulated radiographic techniques labs - Assessment practice On-campus tutorial <b>Image Portfolio &amp; Evaluation</b> - Friday 4th June 2021

**Review/Exam Week - 07 Jun 2021**

Module/Topic	Chapter	Events and Submissions/Topic
		<b>Practical Assessment 2</b> - Monday 7th or Tuesday 8th June 2021 <b>Practical Assessment 2 Re-sits</b> - Wednesday 9th June 2021 <b>Professional Behaviours Form</b> - due Friday 11th June 2021

**Exam Week - 14 Jun 2021**

Module/Topic	Chapter	Events and Submissions/Topic
		<b>Online Test</b> - specific date/time to be advised through Moodle page

## Term Specific Information

This unit is delivered in on-campus mode at Mackay Ooralea campus running from Weeks 1 to 14. You will need to be on campus for tutorials and labs from Week 1 onwards. Tutorials will not be recorded.

High fidelity clinical simulation is a core component of this unit. This simulation includes use of actual x-ray equipment with simulated patients in the Medical Imaging labs as well as computer-based immersive virtual reality (VR) simulation of radiographic positioning and imaging.

Each week's tutorial and lab activities builds on the content of the pre-recorded lectures for the weeks, so you need to ensure you have watched the lectures prior to attending labs and tutorials.

Note that 150 hours of student engagement is required for this unit. You should plan to complete pre-reading (1 hr/wk), view all lectures (2 hrs/wk), supervised labs (2.5 hrs/wk), independent labs (1 hr/wk), VR simulation practice and image-taking (1 hr/wk) and tutorials (1 hr/wk), as this will be integral to the development of knowledge and skills required for the assessments of the unit. You are expected to practice the positioning techniques during the timetabled independent practice sessions that are timed between the first and second lab class each week. The pace of class lab activities has been set with the expectation of practice and corresponding skill development. You should plan to apply an equal amount of time per week on your personal study, skills practice and assessment preparation as you do attending the on-campus classes.

Students are to wear the Medical Imaging uniform for all learning activity in the x-ray labs. This includes the Medical Imaging course shirt with dress pants/shorts/skirts and safe, closed-in footwear.

This unit is designed to run concurrently with MEDI12001 Radiation Science and MEDI12002 Science & Instrumentation 1. You are expected to apply your knowledge and skills from those two units to both learning activities and assessments in this unit.

The unit coordinator for this unit is: Natalie Sciascia

Preferred contact is by email at [n.sciascia@cqu.edu.au](mailto:n.sciascia@cqu.edu.au). Alternatively, I can be contacted by phone on (07) 4940 7482 or Ext. 57482.

## Assessment Tasks

### 1 Professional Behaviours, Reflection & Action Plan, Image Portfolio & Evaluation

#### Assessment Type

Practical Assessment

#### Task Description

The purpose of this assessment is to prepare you for the clinical environment and the professional responsibilities required of a radiographer, including accurate image evaluation. You will also reflect on your skill development and set a SMART goal.

This assessment consists of three parts to complete and upload:

- Reflection & Action Plan - due Week 6 Friday 23rd April 2021 at 4pm
- Image Portfolio & Evaluation - due Week 12 Friday 4th June 2021 at 4pm
- Professional Behaviours - due Week 13 Friday 11th Jun 2020 at 4pm

#### Reflection & Action Plan

This assessment further develops your skills of reflection on your practice so that you may apply what you have learned to improve your practice. You learned how to reflect in MEDI11004 Professional Practice, and you will now use reflection to develop as a professional by self-assessing the weaker areas of your performance. You will also receive feedback from your lab supervisor and peers during weekly practical lab sessions that you will document and use to reflect upon.

During lab sessions, each student will be required to observe their peers and provide constructive feedback to the student who is playing the role of "radiographer". You will provide feedback based on the technical performance and patient care and communication skills demonstrated. You are to log on the Feedback Form any feedback you receive from your lab supervisor or peers, plus add your own observations. Then, select an attribute/s that you feel requires

improvement and reflect on your performance for this attribute.

By applying a deeper understanding of your thinking and actions that you have obtained from your reflection, you must develop an action plan that you will implement in the labs for the remainder of the term in preparation for your upcoming clinical placement. Discuss how you plan to raise the performance of your selected attribute by setting a SMART goal (specific, measurable, action-oriented, realistic and time-based). By addressing each item in the SMART acronym you will articulate specific actions that you will implement in order to improve your performance related to that attribute.

Format of submission - A Word template will be provided for this assessment item, so that you can enter your response under each heading to address the required content points. As this is a reflective report, you are to write in the first person. The Reflection and Action Plan should be 600-800 words in length, with a maximum word count of 1000.

Upload the Reflection & Action Plan Assessment onto the unit Moodle site.

### **Image Portfolio & Evaluation**

It is important that Radiographers have the necessary skills and knowledge to safely and effectively image patients. This involves patient positioning, equipment set-up and appropriate technical factor selection. Another important aspect is the ability to evaluate resultant images for technical sufficiency.

This portfolio documents your hands-on developmental experience in radiographic technique and in your image assessment skill.

In Weeks 2-4, 6-11, using the Skilitics Virtual Reality (VR) system, you must produce two images from those taught in lecture presentations each week. You must evaluate these images using the proforma provided on the Moodle site. The images and evaluations must be submitted via the Moodle site by the end of term. In total you must produce eighteen (18) images and associated image evaluations. The format of the submission will be posted on the unit Moodle site.

### **Professional Behaviours**

Professional behaviour is a vital component of competency as a health care professional. As such you will be expected to demonstrate this consistently whilst working in the simulated clinical environment of the imaging labs.

The Professional Behaviours Assessment Form is available on the unit Moodle site. You must bring it with you to each of your scheduled supervised practical lab classes. This form details the behaviours required. Your lab supervisor will assess your performance relative to the stated standards. Your lab supervisor will complete and sign the form every session.

Once completed this form must be uploaded via the unit Moodle site for review by the unit coordinator.

*Please ensure you check due dates and times for all submissions, and that paperwork is completed correctly and accurately. Failure to do so will result in a fail mark for that assessment item.*

**This is a pass/fail assessment item that must be completed by the specified due date.** If you have extenuating circumstances that cause you to be unable to submit your assessment at the due date and time, you must apply for an assessment extension. See Section 5 of the University's Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new due date/time. In the absence of an approved extension, you will not be able to submit this task at a later date and would thus receive a Fail grade for the assessment, which would result in a Fail grade for the unit.

### **Assessment Due Date**

Reflection & Action Plan - due Week 6 Friday 23rd April 2021 at 4pm, Image Portfolio & Evaluation - due Week 12 Friday 4th June 2021 at 4pm, Professional Behaviours - due Week 13 Friday 11th Jun 2020 at 4pm

### **Return Date to Students**

Feedback will be provided within 2 weeks of each submission

### **Weighting**

Pass/Fail

### **Minimum mark or grade**

Pass

### **Assessment Criteria**

#### **Reflection and Action Plan**

The reflection and action plan submissions are assessed for:

- completeness of the submission (providing a response in each area of the template to address the stated questions and instructions in the task description)
- depth of discussions (analysis, interpretation, evaluation, recognition of own thinking and actions)
- relevance and practicality of the proposed actions
- clarity and format of writing (including logical flow, spelling, punctuation, grammar and correct use of Harvard system in citing external sources)
- adhering to word limit

A marking rubric will be posted on the unit Moodle site to specify the 'Pass' requirements for each criterion listed above. In the event that your submission does not meet the 'Pass' requirements as per the rubric, you will be provided detailed feedback and guidance by the unit coordinator. You will then have one week to respond to the feedback and resubmit the Reflection and Action Plan assessment.

### **Image Portfolio & Evaluation**

Once submitted, two image evaluation proformas will be chosen randomly for assessment. You will not be informed in advance which examinations will be assessed.

This portfolio is assessed on the following aspects:

- Completeness relative to the requirements stated in the Task Description regarding the number and type of images and their evaluations
- Correctness and completeness of image evaluations
  - Of the 18 submitted image evaluations, 2 will be selected at random for detailed scoring.
  - Each scored image evaluation requires 24 information items, each of which is worth 1 mark, for a total of 48 possible marks for the two evaluations.

To attain a clear pass in this assessment task, your portfolio must:

- Be complete in content
- Score a minimum of 38 out of 48 on the two scored evaluations

If your initial submission is complete but your evaluation score is between 24 – 37, you will be afforded one further opportunity to achieve a pass grade for this assignment. You will then be required to produce two additional images (of projections not already submitted) and their evaluations. You must score at least 38/48 on this second submission.

If your initial submission is not complete in content and/or your image evaluation score is below 24/48, you will not be allowed any further submission and your score on this assessment task will be a Fail.

### **Professional Behaviours**

Assessed upon:

- Attendance
- Punctuality
- Professional attire
- Preparedness
- Productivity
- Teamwork
- Professional decorum
- Feedback

Detailed assessment criteria and a marking rubric are available on the unit Moodle site.

You will receive 8 points per lab class if all assessment criteria are met. Points will be deducted for any criteria, including attendance, where you have not demonstrated the behaviour to the required standard.

To attain a 'Pass' for this assessment, you must:

- submit the reflection and action plan by the stated due date
- meet the 'Pass' requirements in all criteria of the reflection and action plan after a maximum of two attempts
- (initial submission and one re-submission)

- receive 80% of available points for the professional behaviours evaluation
- complete and upload the professional behaviours evaluation form by the due date.

### Referencing Style

- [Harvard \(author-date\)](#)

### Submission

Online

### Learning Outcomes Assessed

- Demonstrate patient care and professional behaviours in the simulated clinical environment

### Graduate Attributes

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

## 2 Practical Assessment 1

### Assessment Type

Practical Assessment

### Task Description

Performing simulated radiography techniques in the x-ray lab environment allows you to apply your learned skills, by positioning your peers as patients for simulated x-ray examinations and modifying technical factors. Attending the supervised and independent practice lab sessions is crucial to your learning success and preparation for your clinical placements.

Practical Assessment 1 is an individual 12 minute practical assessment in the x-ray suite. You will perform one simulated conventional radiography examination on one anatomical region using a peer as your patient. Feedback provided from this assessment will enable you to structure your learning and make improvements to your performance in preparation for Practical Assessment 2 in Week 13.

Practical assessment 1 will focus on patient care, examination justification, patient positioning, imaging technique, safe practice and management of the radiographic process.

*You will be required to perform only one simulated x-ray projection that has been covered in the unit material from Weeks 1-3.*

### Please note:

- This is a timed examination. You will have 12 minutes to complete the assessment. If all of the practical elements of the assessment are not completed within the allocated 12 minutes, the assessment will be stopped and you will be marked based on your performance up to that point.
- You must present for your individual practical assessment dressed as you would present to the clinical environment. Any student not adhering to the dress code may be excluded from the assessment.
- This assessment task may be recorded using a video camera to enable moderation.
- As this is a simulation of a clinical procedure, you must perform this assessment without referring to any guidance resources (e.g. notes, texts, electronic devices) – this is a closed book assessment.
- If you do not achieve the minimum score you will be given two additional opportunities to perform the assessment. The first re-attempt will be scheduled within 7 calendar days of receiving the scores and feedback of the original assessment.
- If you do not achieve the minimum score at the first re-attempt, a second re-attempt will be scheduled within 7 calendar days of receiving the scores and feedback of the first re-attempt. The 7 calendar days do not include Vacation Week.

**This is a pass/fail assessment item that must be completed by the specified due date.** If you have extenuating circumstances that cause you to be unable to attend your practical at your timetabled date and time, you must apply for

an assessment extension. See Section 5 of the University's Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new practical date/time which will be set according to the availability of the imaging facilities and supervising staff. It is your responsibility to ensure that you can attend at that new assigned date/time. In the absence of an approved extension, you will not be able to complete this task at a later date and would thus receive a Fail grade for the assessment task, which would result in a Fail grade for the unit.

### **Assessment Due Date**

Assessment will be held during the timetabled practical lab sessions on Friday of Week 5

### **Return Date to Students**

Written feedback provided within 2 weeks of assessment

### **Weighting**

Pass/Fail

### **Minimum mark or grade**

Pass

### **Assessment Criteria**

Areas assessed:

- Interpretation and justification of the clinical request
- Preparation of the x-ray room and ancillary equipment
- Positive identification of patient and introduction
- Verification of anatomical area and relevant clinical history
- Determination of pregnancy status
- Gaining informed consent
- Projection performed effectively
- Projection performed in a timely manner
- Use of primary anatomical markers
- Safe use of equipment
- Appropriate debrief and dismiss of patient
- Infection control
- Communication skills
- Professionalism

Each main category has one or more tasks. Each task has a minimum score required for a pass. Some tasks are of a more critical nature than others, therefore require a higher level of performance.

### **Please note:**

- Detailed performance and assessment criteria and a scoring rubric will be available on the unit Moodle site.
- Each performance criterion has a specified target score of 3, 4 or 5 out of 5.
- Specified critical criteria requires achieving a score of 5 out of 5, allowing for no errors or omissions.

To achieve a 'Pass' for this assessment, you must:

- attain a score of 5 for ALL critical criteria, AND
- attain the minimum specified target in all but one non-critical criteria.

### **Referencing Style**

- [Harvard \(author-date\)](#)

### **Submission**

Offline

### **Learning Outcomes Assessed**

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults

- Demonstrate patient care and professional behaviours in the simulated clinical environment

### Graduate Attributes

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

## 3 Practical Assessment 2

### Assessment Type

Practical Assessment

### Task Description

Performing simulated radiography techniques in the x-ray lab environment allows you to apply your learned skills, by positioning your peers as patients for simulated x-ray examinations and modifying technical factors. Attending the supervised and independent practice lab sessions is crucial to your learning success and preparation for your clinical placements.

Practical Assessment 2 is an individual 15 minute practical assessment in the x-ray suite. You will perform a simulated radiography examination on one anatomical region using a peer as your patient.

This assessment will focus on patient care, examination justification, patient positioning, imaging technique, safe practice and management of the radiographic process.

*You will be required to perform one simulated x-ray examination (including two views/projections) that has been covered in the unit material for this term.*

### Please note:

- This is a timed examination. You will have 15 minutes to complete the assessment. If all of the practical elements of the assessment are not completed within the allocated 15 minutes, the assessment will be stopped and you will be marked based on your performance up to that point.
- You must present for your individual practical assessment dressed as you would present to the clinical environment. Any student not adhering to the dress code may be excluded from the assessment.
- This assessment task may be recorded using a video camera to enable moderation.
- As this is a simulation of a clinical procedure, you must perform this assessment without referring to any guidance resources (e.g. notes, texts, electronic devices) - this is a closed book assessment.
- If you do not achieve the minimum score you will be given only one additional opportunity to be re-assessed. The re-attempt will be scheduled within 7 calendar days of receiving the scores and feedback of the original assessment.

**This is a pass/fail assessment item that must be completed by the specified due date.** If you have extenuating circumstances that cause you to be unable to attend your practical at your timetabled date and time, you must apply for an assessment extension. See Section 5 of the University's Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new practical date/time which will be set according to the availability of the imaging facilities and supervising staff. It is your responsibility to ensure that you can attend at that new assigned date/time. In the absence of an approved extension, you will not be able to complete this task at a later date and would thus receive a Fail grade for the assessment task, which would result in a Fail grade for the unit.

### Assessment Due Date

Assessment will be held during the timetabled practical assessment lab sessions on Monday and Tuesday of Week 13

### Return Date to Students

Written feedback provided within 2 weeks of assessment

**Weighting**

Pass/Fail

**Minimum mark or grade**

Pass

**Assessment Criteria**

Areas assessed:

- Interpretation and justification of the clinical request
- Preparation of the x-ray room and ancillary equipment
- Positive identification of patient and introduction
- Verification of anatomical area and relevant clinical history
- Determination of pregnancy status
- Gaining informed consent
- Projection performed effectively
- Projection performed in a timely manner
- Use of primary anatomical markers
- Safe use of equipment
- Appropriate debrief and dismiss of patient
- Infection control
- Communication skills
- Professionalism

Each main category has one or more tasks. Each task has a minimum score required for a pass. Some tasks are of a more critical nature than others, therefore require a higher level of performance.

**Please note:**

- Detailed performance and assessment criteria and a scoring rubric will be available on the unit Moodle site.
- Each performance criterion has a specified target score of 3, 4 or 5 out of 5.
- Specified critical criteria requires achieving a score of 5 out of 5, allowing for no errors or omissions.

To achieve a 'Pass' for this assessment, you must:

- attain a score of 5 for ALL critical criteria, AND
- attain the minimum specified target in ALL non-critical criteria.

**Referencing Style**

- [Harvard \(author-date\)](#)

**Submission**

Offline

**Learning Outcomes Assessed**

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults
- Demonstrate patient care and professional behaviours in the simulated clinical environment

**Graduate Attributes**

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

## 4 In-class Test

**Assessment Type**

In-class Test(s)

### **Task Description**

A one hour and thirty minute (1.5 hours) in-class written test.

As health care professionals, radiographers must consider many variables during the radiographic imaging process and be able to apply their imaging knowledge and skills to solve problems as they present clinically.

This in-class test includes the use of images in the form of photographs, radiographic images, and line drawings. These images are used as a basis for a series of questions related to each image. Subjects covered include amongst others, patient positioning, image quality and improvement, anatomy, radiographic pathology, and patient care. You are required to review the included images and to answer all questions related to each image.

This test covers radiography of the following regions (as covered in Weeks 1-8 of the unit):

- Upper extremity
- Shoulder girdle
- Abdomen
- Thorax

**This test is a closed-book assessment of 1 hour and 30 minutes duration.** You will have a five minute settling in period prior to the allotted writing time. You will write the test under supervision. You are responsible for conducting yourself as you would in a formal examination as detailed in the Assessment Procedures.

**This test must be written at the timetabled date and time.** There is no provision for a late submission and no late penalty can be applied. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment if you have not completed it by the scheduled date and time. If you have an approved extension, you will be assigned a new test date and time as soon as possible after the original test date, according to availability of a test supervisor and an appropriate room. It is your responsibility to ensure that you can attend at that new assigned date/time. Please see Section 5 of the the University's Assessment Policy and Procedure for details regarding Assessment Management, specifically around assessment extension.

### **Assessment Due Date**

Week 10 Thursday (20 May 2021) 1:00 pm AEST

### **Return Date to Students**

Written feedback within 2 weeks

### **Weighting**

40%

### **Minimum mark or grade**

50%

### **Assessment Criteria**

Assessment on:

- Patient care and comfort
- Radiation safety
- Identification of normal anatomy
- Identification of abnormalities on x-ray images
- Scientific description of technical sufficiency of images
- Accurate description of patient positioning
- Application of knowledge to correct positioning errors
- Application of knowledge to correct technical insufficiency of images

Question responses will be scored on the following criteria:

- Correct use of scientific terminology
- Correct selection and application of core concepts to the specific content of the question
- Clarity, correctness, relevance and completeness of the response in addressing the question that was asked.

The number of marks for each question are allocated based on the depth and breadth of the required response, and will be indicated on the test.

## Referencing Style

- [Harvard \(author-date\)](#)

## Submission

Offline

## Learning Outcomes Assessed

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults
- Assess radiographs for technical sufficiency
- Discuss methods to modify a radiographic examination to improve technical sufficiency and/or better demonstrate required anatomy
- Identify radiographic appearances of normal anatomical structures, common normal variants and common pathologies of the appendicular skeleton, shoulder girdle, pelvic girdle, thorax and abdomen
- Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for a radiographic examination and in discussing radiographic images and their appearances
- Discuss the indications for, anatomical features demonstrated by and technical set-ups, patient care requirements and specific imaging goals of the various radiographic examinations of the upper and lower extremities, shoulder and pelvic girdles, thorax and abdomen.

## Graduate Attributes

- Communication
- Problem Solving
- Ethical practice

## 5 Online Test

### Assessment Type

Online Test

### Task Description

This test paper is a Word document that you will download at the start of the test time, use to enter your question responses into the allocated spaces and upload by the due time.

As health care professionals, radiographers must consider many variables during the radiographic imaging process and be able to apply their imaging knowledge and skills to solve problems as they present clinically.

This test includes the use of images in the form of photographs, radiographic images, and line drawings. These images are used as a basis for a series of questions related to each image. Subjects covered include amongst others, patient positioning, image quality and improvement, anatomy, radiographic pathology, and patient care. You are required to review the included images and to answer all questions related to each image.

This test covers material from all weeks of the term, with additional weighting given to the body regions not included in the first in-class test (ie. lower extremity and pelvic girdle).

**This is an open book test.** It means that during the test you may access your study notes, textbook, the unit Moodle site and/or any website. **The standards of academic integrity still apply.** Just as for written assignments, you must acknowledge intellectual content in your answers that is not your own work. Basic statements of facts are considered 'common knowledge' in the context of this unit so they do not need to be cited. However, *if you copy any explanation content word-for-word from ANY source, you must put that content in quotation marks and formally cite your source.*

You must undertake this test as individuals and not with classmates or others. As with all other University assessments, colluding with other students on a non-group work task is considered academic misconduct and will be dealt with in accordance with the Student Academic Integrity Policy.

**This test must be written at the specified date and time.** There is no provision for a late submission and no late penalty can be applied. If you commence the test late, you will still be required to submit your test at the standard test end time. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment. If you have an approved extension, you will be assigned a new test date and time as soon as possible after the original test date. It is your responsibility to ensure that you can attend at that new assigned date/time. Please see Section 5 of the the University's Assessment Policy and Procedure for details regarding Assessment Management, specifically around assessment extension.

## Assessment Due Date

The final online test will be administered during the University's Exam period at a date/time set by the School of Health, Medical and Applied Science. All students will be required to sit the test during the same 120 minute period.

## Return Date to Students

Scores provided within 2 weeks of the due date

## Weighting

60%

## Minimum mark or grade

50%

## Assessment Criteria

Assessment on:

- Patient care and comfort
- Radiation safety
- Identification of normal anatomy
- Identification of abnormalities on x-ray images
- Scientific description of technical sufficiency of images
- Accurate description of patient positioning
- Application of knowledge to correct positioning errors
- Application of knowledge to correct technical insufficiency of images

Question responses will be scored on the following criteria:

- Correct use of scientific terminology
- Correct selection and application of core concepts to the specific content of the question
- Clarity, correctness, relevance and completeness of the response in addressing the question that was asked.

The number of marks for each question are allocated based on the depth and breadth of the required response, and will be indicated on the test paper.

## Referencing Style

- [Harvard \(author-date\)](#)

## Submission

Online

## Learning Outcomes Assessed

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults
- Assess radiographs for technical sufficiency
- Discuss methods to modify a radiographic examination to improve technical sufficiency and/or better demonstrate required anatomy
- Identify radiographic appearances of normal anatomical structures, common normal variants and common pathologies of the appendicular skeleton, shoulder girdle, pelvic girdle, thorax and abdomen
- Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for a radiographic examination and in discussing radiographic images and their appearances
- Discuss the indications for, anatomical features demonstrated by and technical set-ups, patient care requirements and specific imaging goals of the various radiographic examinations of the upper and lower extremities, shoulder and pelvic girdles, thorax and abdomen.

## Graduate Attributes

- Communication
- Problem Solving
- Ethical practice

## 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