MEDI13002 *Imaging Procedures 3*
Term 1 - 2026

Profile information current as at 12/11/2026 11:15 am

All details in this unit profile for MEDI13002 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
Imaging Procedures 3 builds upon the core knowledge and skills developed and consolidated during Imaging Procedures 1 and 2 and clinical practice. This unit will focus on practical Computed Tomography (CT) imaging and on safe administration of intravenous contrast media. On completion of this unit you will have developed the skills and knowledge to be able to perform simulated CT examinations of the brain, spine, thorax, abdomen, pelvis and extremities. You will customise imaging acquisition and processing parameters for various clinical presentations. You will propose and develop new and modified imaging protocols. You will learn the foundation knowledge and skills of intravenous (IV) cannulation. You will perform CT procedures and simulated IV cannulation in our clinical simulation laboratory.

Details
Career Level: *Undergraduate*
Unit Level: *Level 3*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites
Pre-requisites: MEDI12006 Imaging Procedures 2 andMEDI12010 Radiographic Anatomy and Appearances 2 andMEDI12011 Medical Imaging Clinical Experience 1 Co-requisite: MEDI13001 Imaging Science 4
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 - 2026
- 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. Assessment 1 IV Cannulation Practical Assessment (Practical Assessment)
Weighting: Pass/Fail
2. Assessment 2 In Class test (In-class Test(s))
Weighting: 40%
3. Assessment 3 Professional Behaviours Laboratory/Practical (Laboratory/Practical)
Weighting: Pass/Fail
4. Assessment 4 Final In Class Test (In-class Test(s))
Weighting: 60%
5. Assessment 5 CT Practical Assessment (Practical Assessment)
Weighting: Pass/Fail

Assessment Grading

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

CQUniversity Policies

All University policies are available on the CQUniversity Policy site.
You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Academic Progression Policy and Procedure
- Student Refund and Credit Balance Policy and Procedure
- 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 Unit coordinator Reflection

Feedback

Assessment timing timetabling for in-class tests needs to be reviewed to ensure meets new CQU academic calendar requirements and expectations for 2026.

Recommendation

The Unit Coordinator should review the timing of in-class tests before completing timetabling for the 2026 iteration.

Feedback from Unit coordinator Reflection and student feedback

Feedback

The cannulation labs being held over 3 weeks instead of 2 was very well received by students and supported student scaffolding of vital practical cannulation skills.

Recommendation

Continue to schedule Cannulation lab activities over three weeks for all students.

Unit Learning Outcomes

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

1. Optimise the imaging protocols and presentation of data sets for CT examinations (both non-contrast and contrast), taking into account evidence based practice and individual clinical circumstances
2. Present a logical argument to support decision-making in preparing the patient and equipment for computed tomography examinations and in selecting, creating and modifying image acquisition, processing and display protocols
3. Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
4. Demonstrate patient care and professional behaviours in the simulated clinical environment
5. Analyse computed tomography data sets in order to identify normal anatomical structures and common pathologies and to evaluate image quality
6. Apply underlying knowledge to the safe and effective use of contrast agents in computed tomography.

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:*
  - *capability 1, enabling components a, b*
  - *capability 2, enabling components b, g*
  - *capability 3, enabling components a, c, d*
  - *capability 4, enabling components a, b, c*
  - *capability 5, enabling components b, d, e*
  - *capability 6, enabling components b, c, d*
  - *capability 7, enabling components a, b, d*
  - *capability 8, enabling components a, b, c, d, e*
- *Domain 1A:*
  - *capability 3, enabling components a, b, d, e, f*
- *Domain 2:*
  - *capability 1, enabling components a, h*
  - *capability 2, enabling component c*
  - *capability 3, enabling components a, c*
  - *capability 5, enabling components a, b*
- *Domain 3:*
  - *capability 1, enabling components b, c, d, e, f, h*
  - *capability 2, enabling components b, c*
- *Domain 4:*
  - *capability 1, enabling component c*
- *Domain 5:*
  - *capability 1, enabling component a, b, c, e*
  - *capability 2, enabling components b, d, e*
  - *capability 3, enabling components c, d, e*

The Australian Society of Medical Imaging and Radiation Therapy (ASMIRT) recommends that IV cannulation be taught at undergraduate level.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level • Introductory Level • Intermediate Level • Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Practical Assessment - 0%			•	•		•

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
2 - Practical Assessment - 0%	•		•	•		
3 - Laboratory/Practical - 0%			•	•		
4 - In-class Test(s) - 40%		•			•	•
5 - In-class Test(s) - 60%	•	•			•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
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 - First Nations Knowledges						

Textbooks and Resources

Textbooks

MEDI13002

Prescribed

Computed tomography for technologists: a comprehensive text
Edition: Third (2025)
Authors: Lois E. Romans
Wolters Kluwer
Philadelphia , America
ISBN: 9781975232955
Textbook can be purchased as either hard copy or e-book through the Bookshop.

View textbooks at the University shop

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

Sarah Wooldridge Unit Coordinator
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Nicole Grigg Unit Coordinator
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Schedule

Week 1 - 09 Mar 2026

Module/Topic	Chapter	Events and Submissions/Topic
IV Cannulation and Vein Anatomy	Romans, Chapter 12 and Chapter 13 pp 148-154 IV cannulation workbook available on the unit Moodle site	Cannulation lab, on-campus tutorial

Week 2 - 16 Mar 2026

Module/Topic	Chapter	Events and Submissions/Topic
Contrast and Contrast Safety	Romans, Chapter 12 and Chapter 13 IV cannulation workbook available on the unit Moodle site	Cannulation lab, on-campus tutorial

Week 3 - 23 Mar 2026

Module/Topic	Chapter	Events and Submissions/Topic
Contrast Administration Routes Patient Care within CT environment Cone Beam and CT Dentascan	Romans, Chapter 10 and Chapter 11	Cannulation lab, on-campus tutorial

Week 4 - 30 Mar 2026

Module/Topic	Chapter	Events and Submissions/Topic

Contrast Reaction recognition, monitoring and treatment Communication within contrast recognition, monitoring and treatment in the team environment	Romans, Chapter 12 and Chapter 13	On-campus tutorial Assessment 1 Cannulation assessment Due: during timetabled session of Tuesday, Wednesday or Thursday
Week 5 - 06 Apr 2026		
Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Head and CT Brain Anatomy	Romans, Chapter 19 and Chapter 15 pg 191-205	CT procedures lab
Week 6 - 13 Apr 2026		
Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Spine and CT Spine Anatomy	Romans, Chapter 15 pg 206-211, Chapter 19 pg 269-271	CT procedures lab, on-campus tutorial
Vacation Week - 20 Apr 2026		
Module/Topic	Chapter	Events and Submissions/Topic
Week 7 - 27 Apr 2026		
Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Thorax and CT Thorax Anatomy	Romans, Chapter 16 and Chapter 20 pg 294-295, 273-276	CT procedures lab, on-campus tutorial Assessment 2 In Class test Due: Week 7 Monday (27 Apr 2026) 5:00 pm AEST
Week 8 - 04 May 2026		
Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Abdomen and CT Abdomen Anatomy	Romans, Chapters 17 & 21	CT procedures lab
Week 9 - 11 May 2026		
Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Chest, Abdomen and Pelvis and Hips and CT Pelvis Anatomy CT Special Procedures and Angiography	Romans, Chapters 17 & 21, Chapter 18 pg 235-237 Romans, Chapter 23, 25 and pg 291-292 Romans, Chapter 19 pg 249-251 & 271 Romans, Chapter 20 pg 275-283 Romans, Chapter 13 pg 154-158	CT procedures lab, on campus tutorial
Week 10 - 18 May 2026		
Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Extremities and CT Ankle, Knee and Shoulder Anatomy	Romans, Chapter 18 & 22	CT procedures lab, on-campus tutorial
Week 11 - 25 May 2026		
Module/Topic	Chapter	Events and Submissions/Topic
Revision		CT procedures lab, on-campus tutorial Assessment 3 Professional Behaviours Laboratory/Practical Due: Week 11 Thursday (28 May 2026) 5:00 pm AEST Assessment 4 Final In Class Test Due: Week 11 Friday (29 May 2026) 12:00 pm AEST
Week 12 - 01 Jun 2026		
Module/Topic	Chapter	Events and Submissions/Topic
Practical Assessment		Assessment 5 CT Practical Assessment Due: Week 12 Wednesday (3 June 2026) 11:45 pm AEST
Exam Week - 08 Jun 2026		
Module/Topic	Chapter	Events and Submissions/Topic

Vacation/Exam Week - 15 Jun 2026

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

This unit is at Mackay Ooralea Campus running from Weeks 1 to Week 12.

The lecture content will be pre-recorded and will run from Weeks 1 to 10. On-campus tutorials will run from Weeks 1 through to 11, excluding Public Holidays in Weeks 5 and 8. Tutorials will not be recorded.

Note that 150 hours of student engagement is required for this unit. You should plan to complete all lectures (1-2 hrs/week), independent labs (1 hr/week), anatomy consolidation (1 hr/week), tutorials (1 hr/week), cannulation labs in Week 1 (2 hrs/week) and 2 and 3 (1hr/week) and CT supervised practical labs from Week 5-11 (1.5 hrs/week), as this will be integral to the development of knowledge and skills required for the assessments of the unit. You are expected to practice positioning and reformatting techniques during the independent practice sessions. Anatomy revision activities, learning goals and images will be provided on Moodle. You are expected to complete all these activities to ensure success in this unit and in future clinical placements. The pace of the class CT lab activities has been set with the expectation of practice and corresponding skill development.

This unit helps you to develop the knowledge, skills and behaviours to deliver safe and high-quality care in compliance with the Australian Government's National Safety and Quality Health Service (NHQHS) Standards, specifically:

- Partnering with Consumers (regarding actions related to clinical governance and support partnering with consumers, partnering with patients in their own care, health literacy)
- Preventing and Controlling Infections (regarding actions related to the use of infection control systems and processes to reduce the risk to patient and workforce within cannulation)
- Medication Safety Standard (regarding actions related to the clinical governance to support medication management, and documentation)
- Comprehensive Care Standard (regarding actions related to clinical governance to support comprehensive care, developing comprehensive care and minimising patient harm within CT)
- Communication for Safety Standard (regarding actions related to clinical governance to support effective communication)
- Recognising and Responding to Acute Deterioration (regarding actions related to the monitoring of patients, detection of changes, recognition of indicators of deterioration, response to deteriorations in provision of care and communication to other health practitioners)

Assessment Tasks

1 Practical Assessment

Assessment Title
Assessment 1 IV Cannulation Practical Assessment

Task Description
Intravenous cannulation is a core skill for radiographers who perform CT imaging. In preparation for clinical practice, you will develop the knowledge, skills and behaviours needed to perform cannulation in the clinical simulation environment. You will perform intravenous cannulation on the arm or hand of a cannulation phantom for this practical assessment.

This is a holistic assessment and you must consider all aspects of the patient's journey during cannulation, including patient care and communication as well as the practical elements of the cannulation. For the first part of the assessment, you will communicate with the assessor who will take the part of the patient. For the second part, you will cannulate the arm phantom.

Please note -

- You will have 15 minutes to complete the assessment. If you do not complete all elements of the practical assessment 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 will 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 (eg. notes, texts,

electronic devices) - this is a closed book assessment. Artificial Intelligence cannot be used for this assessment.
- If you do not achieve the minimum required score on all tasks you will be given two additional opportunities to perform the assessment. The first re-test will be scheduled within one calendar week of receiving the score and feedback of the original attempt. The second and final re-test will be scheduled within one calendar week of receiving the score and feedback of the first re-test.
- The 72-hour grace period does not apply to this assessment.
- Level of Gen AI use allowed:
  - Level 1: You must not use AI at any point during the assessment. You must demonstrate your core skills and knowledge.
- This is a pass/fail assessment item that must be completed by the specified due date, there is no grace period. 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 lab 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 score for the assessment task, which would result in a Fail grade for the unit.

Assessment Due Date
Assessment will be held during timetabled cannulation lab sessions on Tuesday, Wednesday or Thursday of Week 4

Return Date to Students
No Return Date to Students

Weighting
Pass/Fail

Minimum mark or grade
Pass

Assessment Criteria
Your performance will be scored on your ability to perform the tasks to complete the assigned simulated cannulation procedure following the posted performance standards for the assessment.

Your performance target is to perform each task completely and correctly at the level of the stated standard. Tasks designated as 'critical' must be performed with no errors or omissions.

To achieve a pass on this assessment, by your third attempt you must:
- Complete all critical tasks with no errors or omissions (scored 5/5 on the feedback form)
- For the sixteen non-critical tasks, no more than eight may score '4'
- A score of 1,2 or 3 denotes a Fail for that criterion and a Fail overall

Referencing Style
Vancouver

Submission
Offline

Learning Outcomes Assessed
- Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
- Demonstrate patient care and professional behaviours in the simulated clinical environment
- Apply underlying knowledge to the safe and effective use of contrast agents in computed tomography.

2 In-class Test(s)

Assessment Title
Assessment 2 In Class test

Task Description
You will write an in-class Moodle test to demonstrate your ability to apply the concepts and use the terminology based on content provided from the first 5 weeks of this unit. Question tasks will be of the same types that you will practice in weekly tutorials. These tasks may include analysis of diagrams, photographs and CT images to identify normal anatomical structures and common pathologies, as well as discuss patient care, preparation, protocols, referrals, contrast and recognition, monitoring and treatment of contrast reactions, including communication.

This test is timetabled to take place on campus, on Monday 27th April, 2026. The test will run for 50 minutes. The test itself will start at 3:05pm and finish at 3:55pm AEST or start at 4:00pm and finish at 4:50pm depending upon your timetabled choice.

This is a closed book assessment and no notes, texts or additional electronic devices are allowed into class during this assessment task. CQU computers will be used and only the Moodle page required for the test will be open.

The 72-hour grace period does not apply to this assessment.
Level of Gen AI use allowed:
Level 1: You must not use AI at any point during the assessment. You must demonstrate your core skills and knowledge.

This test must be written at the timetabled date and time, there is no grace period for this test. As per the Assessment Procedures, this task is to be completed during a defined period. There is no opportunity to apply a late penalty. If you arrive late, you may enter the test room up to 30 minutes after the start of the test; however, 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 not completed it by the scheduled date and time.

Assessment Due Date
Week 7 Monday (27 Apr 2026) 5:00 pm AEST
Due in timetabled session 3pm or 4pm AEST start. Mackay Ooralea Campus.

Return Date to Students
Week 9 Monday (11 May 2026)

Weighting
40%

Assessment Criteria
Assessed on:
- Identification of normal cross-sectional anatomy and common pathologies
- Application of knowledge of imaging protocols
- Accurate consideration of contrast safety, cannulation technique and contrast use
- Contrast reaction recognition, monitoring and treatment
- Communication within all aspects of CT and team environment
- Critical thinking.

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 in the Moodle Quiz.

Referencing Style
Vancouver

Submission
Online

Learning Outcomes Assessed
- Present a logical argument to support decision-making in preparing the patient and equipment for computed tomography examinations and in selecting, creating and modifying image acquisition, processing and display protocols
- Analyse computed tomography data sets in order to identify normal anatomical structures and common pathologies and to evaluate image quality
- Apply underlying knowledge to the safe and effective use of contrast agents in computed tomography.

3 Laboratory/Practical

Assessment Title
Assessment 3 Professional Behaviours Laboratory/Practical

Task Description
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.

During each lab class, your lab instructor will monitor your performance based on the criteria listed below, provide brief verbal feedback at the end of class and will document it in the Professional Behaviours Form. Should any significant behavioural issue arise, the unit coordinator will follow up with you directly. After the final lab class in Week 11, the completed forms will be reviewed by the unit coordinator to determine the number of points you have earned towards the maximum available number. That number is based on the number of weekly labs and any approved absence.

Regular attendance is required of you as a core professional behaviour. If you are unwell and unable to attend, you must email the unit coordinator BEFORE your timetabled lab session to report your absence and provide your reasoning. You may be required to provide a medical certificate or other evidence of absence.
Level of Gen AI use allowed:
Level 1: You must not use AI at any point during the assessment. You must demonstrate your core skills and knowledge.

Assessment Due Date
Week 11 Thursday (28 May 2026) 5:00 pm AEST

Return Date to Students
Exam Week Thursday (11 June 2026)

Weighting
Pass/Fail

Minimum mark or grade
Pass

Assessment Criteria
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:
- receive 85% of available points for the professional behaviours evaluation and
- complete the professional behaviours evaluation form by the due date

Referencing Style
Vancouver

Submission
Online

Learning Outcomes Assessed
- Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
- Demonstrate patient care and professional behaviours in the simulated clinical environment

4 In-class Test(s)

Assessment Title
Assessment 4 Final In Class Test

Task Description
You will write an in-class Moodle test to demonstrate your ability to apply the concepts and use the terminology based on content provided from all weeks of this unit. Question tasks will be of the same types that you will practice in weekly tutorials. These tasks may include analysis of diagrams, photographs and CT images to identify normal anatomical structures and common pathologies, as well as discuss patient care, preparation, protocols, referrals, contrast and recognition, monitoring and treatment of contrast reactions, including communication.

This test is timetabled to take place on campus, on Friday, 29th May 2026. The test will run for 80 minutes. The test itself will start at 9:05am and finish at 10:25am AEST or start at 10:35am and finish at 11:55am depending upon your timetabled choice.

This is a closed book assessment and no notes, texts or additional electronic devices are allowed into class during this assessment task. CQU computers will be used and only the Moodle page required for the test will be open.

The 72-hour grace period does not apply to this assessment.
Level of Gen AI use allowed:
Level 1: You must not use AI at any point during the assessment. You must demonstrate your core skills and knowledge.

This test must be written at the timetabled date and time, there is no grace period for this test. As per the Assessment Procedures, this task is to be completed during a defined period. There is no opportunity to apply a late penalty. If you arrive late, you may enter the test room up to 30 minutes after the start of the test; however, 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 not completed it by the scheduled date and time.

Assessment Due Date
Week 11 Friday (29 May 2026) 12:00 pm AEST

Due in timetabled session 9am or 10:30am AEST start. Mackay Ooralea Campus.

Return Date to Students
Exam Week Friday (12 June 2026)

Weighting
60%

Minimum mark or grade
50

Assessment Criteria
Assessed on:

- Identification of normal cross-sectional anatomy and common pathologies
- Application of knowledge of imaging protocols
- Recognition, adaptation and utilisation of imaging protocols, patient preparation and patient adaptation with relation to patient based scenarios
- Accurate consideration of contrast safety, cannulation technique and contrast use
- Contrast reaction recognition, monitoring and treatment
- Communication within all aspects of CT and team environment
- Critical thinking.

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, depth of knowledge and completeness of the response in addressing the question that was asked
- Evidence of critical thinking in application of concepts to specific circumstances
- 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
Vancouver

Submission
Online

Learning Outcomes Assessed

- Optimise the imaging protocols and presentation of data sets for CT examinations (both non-contrast and contrast), taking into account evidence based practice and individual clinical circumstances
- Present a logical argument to support decision-making in preparing the patient and equipment for computed tomography examinations and in selecting, creating and modifying image acquisition, processing and display protocols
- Analyse computed tomography data sets in order to identify normal anatomical structures and common pathologies and to evaluate image quality
- Apply underlying knowledge to the safe and effective use of contrast agents in computed tomography.

5 Practical Assessment

Assessment Title
Assessment 5 CT Practical Assessment

Task Description
The performance of computed tomography (CT) is a core skill for entry to practice in diagnostic radiography. You will need to demonstrate safe and effective CT practice in preparation for your subsequent clinical placements, during which you will undergo performance assessments in CT scanning.

You will perform an individual 15 minute practical assessment of a CT clinical simulation procedure in the CT suite.

You will be given a CT examination referral for one of the non-contrast CT protocols that have been covered during the CT practical lab sessions of this unit. You will be required to carry out that examination, tailoring to the patient based on relevant clinical indicators. This includes generating a scout image, planning and executing the required scan, generating the required reformatted image data set and manipulating it as required for presentation.

This is a holistic assessment and you must consider all aspects of the patient journey, including patient care and communication as well as the technical aspects of the examination. For the first part of the assessment, you will communicate with the assessor who will take the part of the patient. For the second part, you will use the CT anthropomorphic phantom and complete the required CT examination.

Please note -

- The examination is timed. You will have 15 minutes to complete the tasks for this examination. If the examination is not completed within the allocated 15 minutes, the examination 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 will 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 (eg. notes, texts, electronic devices) - this is a closed book assessment.
- Level of Gen AI use allowed:
  - Level 1: You must not use AI at any point during the assessment. You must demonstrate your core skills and knowledge.
- The 72-hour grace period does not apply to the assessment.
- If you do not achieve the minimum score on all tasks you will be given one additional opportunity to resit the assessment within 5 days of receiving your initial scores and feedback.
- This is a pass/fail assessment item that must be completed by the specified due date, there is no grace period. 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 assessment 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 score for the assessment task, which would result in a Fail grade for the unit.

Assessment Due Date
Week 12 Wednesday (3 June 2026) 11:45 pm AEST
Assessment will be held during timetabled CT practical assessment lab sessions on Monday, Tuesday or Wednesday Week 12

Return Date to Students
Exam Week Wednesday (10 June 2026)
Within 7 days of assessment

Weighting
Pass/Fail

Minimum mark or grade
Pass

Assessment Criteria
Your performance will be scored on your ability to perform the tasks to complete the assigned CT imaging examination following the posted performance standards for the assessment.

Your performance target is to perform each task completely and correctly at the level of the stated standard. Tasks designated as ‘critical’ must be performed with no errors or omissions.

To achieve a pass on this assessment task, by your second attempt you must:

- Complete all critical tasks with no errors or omissions (scored 5/5 on the feedback form)
- For the fourteen non-critical tasks, no more than five may score '4'
- A score of 1,2 or 3 denotes a Fail for that criterion and a Fail overall

Referencing Style
Vancouver

Submission
Offline

Learning Outcomes Assessed

- Optimise the imaging protocols and presentation of data sets for CT examinations (both non-contrast and contrast), taking into account evidence based practice and individual clinical circumstances
- Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
- Demonstrate patient care and professional behaviours in the simulated clinical environment

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