

Profile information current as at 05/09/2024 01:28 pm

All details in this unit profile for ENEM29002 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

This project-based unit is about designing fluid power systems for automated and semiautomated industrial plants. This unit deals with exploring fluid power elements and their ISO standard symbols, designing fluid power circuits using actuators, directional control, and other valves, sensors, and control systems. Control technology may include both hydraulic and pneumatic systems integrated with programmable controllers (PLCs and microcontrollers). In small teams, you will undertake project work involving solving real-life industrial problems. There are also several laboratory experiments in the areas of hydraulic and pneumatic operating system design and control circuit design integrated with PLCs for automated machines. You will use simulation software (SimScape and/or FluidSim) for confirming the functionality of designed projects prior to prototyping. You will communicate professionally using discipline-specific terminology to present designs and problem solutions. Students enrolled in online mode must attend a compulsory residential school to facilitate peer collaboration and attainment of the unit learning outcomes.

Details

Career Level: *Postgraduate* Unit Level: *Level 9* Credit Points: *12* Student Contribution Band: *8* Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

There are no requisites for this unit.

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 <u>Assessment Policy and</u> <u>Procedure (Higher Education Coursework)</u>.

Offerings For Term 1 - 2024

- Melbourne
- Online
- Rockhampton

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 Postgraduate 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

Written Assessment
Weighting: 20%
Written Assessment
Weighting: 20%
Laboratory/Practical
Weighting: 20%
Online Quiz(zes)
Weighting: 40%

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 <u>University's Grades and Results Policy</u> for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the <u>CQUniversity Policy site</u>.

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 <u>CQUniversity Policy site</u>.

Unit Learning Outcomes

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

- 1. Design complex fluid drive systems and analyse their performance individually and in teams
- 2. Evaluate advanced applications of drive systems in industrial plants
- 3. Design fluid control circuits integrated with programmable controllers for automated machine systems
- 4. Design and analyse electro-mechanical, fluid power and energy conversion systems
- 5. Design protection and control systems for fluid power machines
- 6. Create professional documentation using appropriate engineering terminology and symbols related to electric and fluid drives.

Learning Outcomes for this unit are linked with the Engineers Australia Stage 1 Competency Standards for Professional Engineers in the areas of 1. Knowledge and Skills Base, 2. Engineering Application Ability and 3. Professional and Personal Attributes at the following levels:

Intermediate

1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline. (LO: 11 21 71)

1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline. (LO: 11 2I 3I 5I 6I)

1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline. (LO: 31 6I)

2.2 Fluent application of engineering techniques, tools and resources. (LO: 11 3I 4I 5I 6I)

- 2.3 Application of systematic engineering synthesis and design processes. (LO: 11 3I 4I 5I)
- 3.1 Ethical conduct and professional accountability. (LO: 7I)

3.2 Effective oral and written communication in professional and lay domains. (LO: 6I 7I)

3.3 Creative, innovative and pro-active demeanour. (LO: 3I 4I 6I 7I)

3.6 Effective team membership and team leadership. (LO 1I 2I 4I 6I 7I)

Advanced

1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline. (LO: 11 2A 3I 7I))

1.4 Discernment of knowledge development and research directions within the engineering discipline. (LO: 11 2I 3I 5I 6A)

2.1 Application of established engineering methods to complex engineering problem solving. (LO: 11 2I 3I 5A 6I)

2.4 Application of systematic approaches to the conduct and management of engineering projects. (LO: 1A 2A 3A 4I 5I 6I)

3.4 Professional use and management of information. (LO: 1A 2A 3A 4A 6I 7A)

3.5 Orderly management of self, and professional conduct. (LO: 11 21 3A 4I 6I 7A)

Note: LO refers to the Learning Outcome number(s) that link to the competency and the levels: N – Introductory, I – Intermediate and A – Advanced.

Refer to the Engineering Postgraduate Units Moodle site for further information on the Engineers Australia's Stage 1 Competency Standard for Professional Engineers and course level mapping information https://moodle.cqu.edu.au/course/view.php?id=11382

Alignment of Learning Outcomes, Assessment and Graduate Attributes

N/A Level

Intermediate Level Introductory Level

Graduate Level

Professional Advanced Level

Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Written Assessment - 20%	•	٠				
2 - Written Assessment - 20%			•	•	•	•
3 - Laboratory/Practical - 20%	•		•			•
4 - Online Quiz(zes) - 40%		•		٠	٠	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
1 - Knowledge	o	o			o	
2 - Communication	o					o
3 - Cognitive, technical and creative skills		o	o	o		o
4 - Research					o	
5 - Self-management						
6 - Ethical and Professional Responsibility			o			
7 - Leadership						o
8 - Aboriginal and Torres Strait Islander Cultures						

Textbooks and Resources

Textbooks

ENEM29002

Prescribed

Fluid Power with Applications Authors: Anthony Esposito Pearson Binding: Paperback

View textbooks at the CQUniversity Bookshop

IT Resources

You will need access to the following IT resources:

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

Referencing Style

All submissions for this unit must use the referencing style: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

Teaching Contacts

Abdul Mazid Unit Coordinator a.mazid@cqu.edu.au

Schedule

Week 1. FLUID PROPERTIES - 04 Mar 2024						
Module/Topic	Chapter	Events and Submissions/Topic				
Lec 1: Fluid Properties (2 hrs)	2	Workshop - project 1 topic selection (2 hrs). Tutorial 1: Problem solving on fundamental fluid properties (2 hrs). (Tutorial sheet available in Week 1 section of Unit Moodle site).				
Week 2. PUMPS - 11 Mar 2024						
Module/Topic	Chapter	Events and Submissions/Topic				
Lec 2: Hydraulic Pumps (2 hrs)	5	Workshop on projects (2 hrs). Tutorial 2: Problems on hydraulic pumps & pump sizing (2 hrs).(Tutorial problems available in Unit Moodle site, Week 2 section).				
Week 3. MOTORS - 18 Mar 2024						
Module/Topic	Chapter	Events and Submissions/Topic				

Lec 3: Hydraulic Motors (2 hrs)	7	Workshops on project 1 / Lab experiments on hydraulics (2 hrs). Tutorial 3. Problem solving & sizing hydraulic motors (2 hrs). (Tutorial problems available in Unit Moodle site, Week 3 section).
Week 4. ACTUATORS - 25 Mar 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Lec 4. Hydraulic Actuators & Cushioning (2 hrs)	6	Workshops on project 1 / Lab experiments on hydraulics (2 hrs). Tutorial 4: Hydraulic actuator sizing (2 hrs). (Tutorial problems available in Unit Moodle site, Week 4 section).
Week 5. CONTROL VALVES - 01 Apr	2024	
Module/Topic	Chapter	Events and Submissions/Topic
Lec 5: Hydraulic Valves (2 hrs)	8	Guest lecture on SimScape software applications. Project 1 presentation workshop, students present their Projects in Team (2 hrs).
Vacation Week - 08 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic
NO CLASSES		Catch up with project works.
Week 6. CIRCUIT DESIGN - 15 Apr 2	024	
Module/Topic	Chapter	Events and Submissions/Topic
		,,,
Lec 6: Fluid Control Circuit Design (2 hrs)	14	Workshop on project 1 (2 hrs). Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site).
	14	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle
hrs) Week 7. INTEGRATED CIRCUIT DESI	GN - 22 Apr 2024	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST
hrs)		Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST Events and Submissions/Topic Workshop on project 2 selection (2
hrs) Week 7. INTEGRATED CIRCUIT DESI	GN - 22 Apr 2024	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST Events and Submissions/Topic
hrs) Week 7. INTEGRATED CIRCUIT DESI Module/Topic Lec 7: Electric Circuits in Fluid Control	GN - 22 Apr 2024 Chapter	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST Events and Submissions/Topic Workshop on project 2 selection (2 hrs). Tutorial 7: Exercises on integrated
hrs) Week 7. INTEGRATED CIRCUIT DESI Module/Topic Lec 7: Electric Circuits in Fluid Control Systems (2 hrs)	GN - 22 Apr 2024 Chapter	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST Events and Submissions/Topic Workshop on project 2 selection (2 hrs). Tutorial 7: Exercises on integrated
hrs) Week 7. INTEGRATED CIRCUIT DESI Module/Topic Lec 7: Electric Circuits in Fluid Control Systems (2 hrs) Week 8. PLCs - 29 Apr 2024	GN - 22 Apr 2024 Chapter 15; Lecture notes.	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST Events and Submissions/Topic Workshop on project 2 selection (2 hrs). Tutorial 7: Exercises on integrated control circuits (2 hrs). Events and Submissions/Topic Workshop on project 2 / Lab experiments on pneumatic control (2 hrs). Tutorial 8: PLC programming (2 hrs). (Tutorial problems available in Unit
hrs) Week 7. INTEGRATED CIRCUIT DESI Module/Topic Lec 7: Electric Circuits in Fluid Control Systems (2 hrs) Week 8. PLCs - 29 Apr 2024 Module/Topic Lec 8: PLC Architecture and	GN - 22 Apr 2024 Chapter 15; Lecture notes. Chapter	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST Events and Submissions/Topic Workshop on project 2 selection (2 hrs). Tutorial 7: Exercises on integrated control circuits (2 hrs). Events and Submissions/Topic Workshop on project 2 / Lab experiments on pneumatic control (2 hrs). Tutorial 8: PLC programming (2 hrs).
hrs) Week 7. INTEGRATED CIRCUIT DESI Module/Topic Lec 7: Electric Circuits in Fluid Control Systems (2 hrs) Week 8. PLCs - 29 Apr 2024 Module/Topic Lec 8: PLC Architecture and	GN - 22 Apr 2024 Chapter 15; Lecture notes. Chapter 17; Lecture handout	Tutorial 6: Exercises on fluid control circuit design (2 hrs). (Tutorial problems available in Unit Moodle site). Project 1 Due: Week 6 Monday (15 Apr 2024) 12:00 am AEST Events and Submissions/Topic Workshop on project 2 selection (2 hrs). Tutorial 7: Exercises on integrated control circuits (2 hrs). Events and Submissions/Topic Workshop on project 2 / Lab experiments on pneumatic control (2 hrs). Tutorial 8: PLC programming (2 hrs). (Tutorial problems available in Unit

Lec 9: Pneumatic Control Elements (2 hrs)	14; Lecture materials	Guest lecture on PLCs during Workshop. Tutorial 9. Exercise PLC programming (2 hrs). Exercise problems available in Unit Moodle site)					
Week 10. PNEUMATIC CONTROL - 13	3 May 2024						
Module/Topic	Chapter	Events and Submissions/Topic					
Lec 10: Pneumatic Logic Elements (2 hrs)	16; Lecture materials	Workshop on project 2 (2 hrs). Tutorial 10: Pneumatic control elements - 2 hrs (Tutorial problems available in Week 10 section of Unit Moodle site)					
Week 11. PNEUMATIC SENSORS - 20 May 2024							
Module/Topic	Chapter	Events and Submissions/Topic					
Lec 11: Pneumatic Sensors Design and Applications (2 hrs)	Lecture materials	Tutorial 12: Pneumatic logic element applications - 2 hrs (Problems available in Week 12 section of Unit Moodle site). Lab experiments on PLCs integrated pneumatic control (2 hrs)					
		Laboratory Experiments and Report Submission Due: Week 11 Monday (20 May 2024) 12:00 am AEST					
Week 12. Review - 27 May 2024							
Module/Topic	Chapter	Events and Submissions/Topic					
Review Lecture (2 hrs)	All sources mentioned above	Project 2 presentation during Workshop (2 hrs). Tutorial 12: Pneumatic control circuits - 2 hrs (Tutorial problems available in Moodle site, Week 12 section)					
		Project 2 Due: Week 12 Monday (27 May 2024) 12:00 am AEST					
Review/Exam Week - 03 Jun 2024							
Module/Topic	Chapter	Events and Submissions/Topic					
Exam Week - 10 Jun 2024							
Module/Topic	Chapter	Events and Submissions/Topic					
		End of Term Online Test Due: Exam Week Thursday (13 June 2024) 3:00 pm AEST					

Assessment Tasks

1 Project 1

Assessment Type Written Assessment

Task Description

A team of four students will perform an engineering project work on a selected hydraulically operated and controlled industrial machine. In the project work students are supposed to design, calculate and analyse the projected machine. For design they will prepare estimation for selection and design of different components and units of the machine. The design will be presented primarily in manual sketches, then layout drawing, assembly drawing, and part drawings of

selected items using a CAD drawing software. Importance and scopes of industrial applications of the projected equipment and it's cost estimation are another factors. Control system for the designed machine students are supposed to use SimScape (MATLAB - Simulink) or FluidSim. On completion of the design project students are supposed to present their achievement in a workshop session.

Essential sections of Project 1 and the report are:

1. Title page (refer to template provided in Unit Moodle site).

2. Introduction and background (describe the problem of your selected project, demonstrate your understanding about the problem following available publications, mention the scope of application of the machine in industry, etc.).

3. Design layout/assembly drawing (2D/3D) in side view/s and top view, visualise it and get clear understanding of your projected machine, you may need to produce part drawings of the selected parts of your machine (selection can be done by your Tutor).

4. Sketch required fluid (hydraulic or pneumatic) power system, calculate and select required fluid (hydraulic or pneumatic) components for your project. You may need to start learning simulation using SimScape or FluidSim at this stage.

5. Industrial applications and value of your projected machine for engineering.

6. Safety factors that to be considered for operation of the projected machine.

7. List of References.

Assessment Due Date

Week 6 Monday (15 Apr 2024) 12:00 am AEST

Return Date to Students

Week 8 Monday (29 Apr 2024)

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

This team-based project will be assessed considering both technical and professional aspects. The technical aspects cover a wide range of applications and quality of the design and analysis of a hydraulic and pneumatic systems, comparison and safety checking of the of the new design using proper engineering procedures. Efficient of project layout drawings, uses appropriate hydraulic units, and productive control system development are the major portions of assessment. The professional aspects cover a higher level of teamwork, leadership, research, and communication skills. Further detail will be provided in due time via the Unit Moodle website.

Referencing Style

• Harvard (author-date)

Submission

Online Group

Submission Instructions

Submit one pdf document, include title page with details of all team members.

Learning Outcomes Assessed

- Design complex fluid drive systems and analyse their performance individually and in teams
- Evaluate advanced applications of drive systems in industrial plants

2 Project 2

Assessment Type

Written Assessment

Task Description

This project-based assignment is based on the content covered in Weeks 1 to 12. The scope of the Assignment 2 will be populated in Week 6 via Unit Moodle website. This is a team work and group submission. Major content of the submission may cover Introduction, Literature finding, Design drawings and calculations, control circuit produced using SimScape (MATLAB-Simulink) or FluidSi, industrial importance and applications and cost estimation. Essential sections of Project 2 and the report are:

- 1. Title page (refer to template provided in Unit Moodle site).
- Introduction and background (describe the problem of your selected project, demonstrate your understanding about the problem following available publications, mention the scope of application of the machine in industry, etc.).

- Design layout/assembly drawing (2D/3D) in side view/s and top view, visualise it and get clear understanding of your projected machine, you may need to produce part drawings of the selected parts of your machine (selection can be done by your Tutor).
- Sketch required fluid (hydraulic or pneumatic) power system, calculate and select required fluid (hydraulic or pneumatic) components for your project. You may need to start learning simulation using SimScape or FluidSim at this stage.
- 5. Control strategy for the designed machine (schematics, pneumatic or hydraulic circuit, PLC program written to control the projected machine at least at a semi-automated level).
- 6. Industrial applications and value of your projected machine for engineering.
- 7. Safety factors that to be considered for operation of the projected machine.
- 8. List of references.

Assessment Due Date

Week 12 Monday (27 May 2024) 12:00 am AEST

Return Date to Students

Review/Exam Week Friday (7 June 2024)

Weighting

20%

Minimum mark or grade 50%

Assessment Criteria

This team-based project will be assessed considering both technical and professional aspects. The technical aspects cover a wide range of applications of design and analysis of a hydraulic and pneumatic system controlled by programmable controller's (PLCs), SimScape simulation, comparison and safety checking of the new design using proper engineering procedures. Efficient of project layout drawings, uses appropriate hydraulic units, and productive control system development are the major portions of assessment. The professional skills cover a higher level of teamwork, leadership, research and communication skills. Students should refer to the Unit Moodle site for individual marking criteria of the team-based projects and labs. Detailed information will be provided in the Moodle website in time.

Referencing Style

• Harvard (author-date)

Submission Online Group

Submission Instructions

Submit one pdf document, include a title page with details of all team members.

Learning Outcomes Assessed

- Design fluid control circuits integrated with programmable controllers for automated machine systems
- Design and analyse electro-mechanical, fluid power and energy conversion systems
- Design protection and control systems for fluid power machines
- Create professional documentation using appropriate engineering terminology and symbols related to electric and fluid drives.

3 Laboratory Experiments and Report Submission

Assessment Type

Laboratory/Practical

Task Description

Students in group will accomplish three lab experiments in hydraulic control and another three experiments in pneumatic control, pneumatic control integrated with PLCs. Students are supposed to demonstrate their professional and skilful attitude towards every experiments. Performances may include clear understanding of the objective, procedures and setup, capability of constructing the control circuits as required and finally running the experiments and collect information and data as required. A group report of each experiment is an essential part of assessment. Students are supposed to follow the OHS regulations.

Assessment Due Date

Week 11 Monday (20 May 2024) 12:00 am AEST

Return Date to Students

Exam Week Monday (10 June 2024)

Weighting

20%

Minimum mark or grade 50%

Assessment Criteria

Assessment of lab experiments will be conducted in two phases: physically performing the experiments and submission of complete technical report on the performed experiment. Assessment criteria are based on a detailed calculations and presentations of data obtained in the hydraulic and pneumatic setup. It is based on accuracy in calculations, validation of results obtained by proper interpretation of results. It is also based on the way how students are putting symbols and hydraulic/pneumatics diagrams to present sequence of operations in the experiments. More information will be provided in due time for individual experiment.

Referencing Style

• Harvard (author-date)

Submission

Online Group

Submission Instructions

Upload one pdf document, include title page with your detail.

Learning Outcomes Assessed

- Design complex fluid drive systems and analyse their performance individually and in teams
- Design fluid control circuits integrated with programmable controllers for automated machine systems
- Create professional documentation using appropriate engineering terminology and symbols related to electric and fluid drives.

4 End of Term Online Test

Assessment Type

Online Quiz(zes)

Task Description

End of Term Online Test (QUIZ/Test) may contain short and/or long questions, analysis and problem solving in areas of design and applications of hydraulic power and control systems, pneumatic and PLC integrated control, modern fluid power technology covering the materials studied (In lecture, tutorial, workshops, and lab sessions) over the 12 weeks of the Term.

Number of Quizzes

1

Frequency of Quizzes

Other

Assessment Due Date

Exam Week Thursday (13 June 2024) 3:00 pm AEST

Return Date to Students

Weighting

40%

Minimum mark or grade 50%

Assessment Criteria No Assessment Criteria

Referencing Style

• Harvard (author-date)

Submission

Online

Learning Outcomes Assessed

- Evaluate advanced applications of drive systems in industrial plants
- Design and analyse electro-mechanical, fluid power and energy conversion systems
- Design protection and control systems for fluid power machines

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 <u>Academic Learning Centre (ALC)</u> can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?





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