

Profile information current as at 28/04/2024 08:51 pm

All details in this unit profile for EDSE11023 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 unit provides an introduction to knowledge of the origins, structure, characteristics, properties and uses of fabricated materials such as metal to construct and critically evaluate a range of products. It includes production design processes and occupational health and safety considerations in the demonstration of practical and theoretical knowledge and skills that are necessary to teach Industrial Technology and Design in the middle years of schooling (7-10). Knowledge of this and other fabricated materials and their use in production processes will be gained through working with industrial machinery, digital and hand tool technologies. Students will design, develop, adapt and evaluate projects utilising critical aspects of knowledge about and develop the hands-on skills of working with metal and other fabricated materials.

Details

Career Level: Undergraduate

Unit Level: *Level 1* Credit Points: *6*

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

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 Assessment Policy and Procedure (Higher Education Coursework).

Offerings For Term 1 - 2024

• Mixed Mode

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).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are: Click here to see your <u>Residential School Timetable</u>.

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. Online Quiz(zes)

Weighting: 20%

2. Written Assessment

Weighting: 30%

3. Practical Assessment

Weighting: 50%

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 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 evaluations survey

Feedback

Useful feedback

Recommendation

Review of how feedback has been delivered to students.

Unit Learning Outcomes

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

- 1. Demonstrate knowledge and understanding of metal industry practices
- 2. Apply theories of materials fabrication, specifically metal, underpinning the content of middle years industrial technology and design teaching
- 3. Investigate processes used to produce fabricated materials that may be used in school-based projects
- 4. Explain relevant facility maintenance processes and procedures in a secondary school workshop
- 5. Critically evaluate specific applications for metal working tools and equipment used in Middle Years of Learning
- 6. Apply Occupational Health and Safety legislation in the school work place
- 7. Analyse preferred implementation processes for working with fabricated materials through sequenced design processes
- 8. Demonstrate a professional capacity to communicate and work in peer learning teams.

Alignment of Learning Outcomes, Assessment and Graduate Attributes Introductory Intermediate Graduate Professional ___ Advanced Level Level Level Level Level Level Alignment of Assessment Tasks to Learning Outcomes **Assessment Tasks Learning Outcomes** 1 - Online Quiz(zes) - 20% 2 - Written Assessment - 30% 3 - Practical Assessment - 50% Alignment of Graduate Attributes to Learning Outcomes **Graduate Attributes Learning Outcomes** 6 8 1 - Communication

Graduate Attributes			Learning Outcomes							
			1	2	3	4	5	6	7	8
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	Gra	Graduate Attributes								
	1	2	3	4	5	6	7	8	9	10
1 - Online Quiz(zes) - 20%	•	•								
2 - Written Assessment - 30%	•	•	•	•		•	•			
3 - Practical Assessment - 50%	•		•	•						

Textbooks and Resources

Textbooks

EDSE11023

Prescribed

Workshop technologies for schools: A combined study

Edition: 1st (2012)

Authors: Baker, S & Schlyder, D

PCS Publications

Toowoomba, Queensland, Australia

ISBN: 978-1-876135-91-1 Binding: Paperback

Additional Textbook Information

If students are unable to source book through CQU Book shop they can order the textbook directly from the Publisher from here: https://peridis.com.au/product/workshop-technologies-a-combined-study-2/

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>American Psychological Association 7th Edition (APA 7th edition)</u>

For further information, see the Assessment Tasks.

Teaching Contacts

Brad Connolly Unit Coordinator

b.connolly@cqu.edu.au

Schedule

Week 1 - 04 Mar 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Health and Safety in the Workshop	Quiz 1
Week 2 - 11 Mar 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Metal Classification, Properties & Heat Treatment	Quiz 2
Week 3 - 18 Mar 2024		

Reading: Workshop Technologies For Schools: A Combined Study	Metals: Iron and Steel manufacturing	Quiz 3
Week 4 - 25 Mar 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Sheet steel products and manufacturing	Quiz 4
Week 5 - 01 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Manufacturing of Copper	Quiz 5
Vacation Week - 08 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Compulsory Residential School: Monday 8/4/24 - Wednesday 10/4/24, 2nd Res School Thursday 11/4/24 to Saturday 13/4/24	During this week students will be assessed on their knowledge and understanding of processes & procedures and practical hand skills. Students will be required to complete a number of school projects aligned to certain year levels. Students please print out a copy of the Residential School Workbook and bring to the Residential School.	Assessment 3 : Practical Assessment - Compulsory Residential School
Week 6 - 15 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Manufacturing of Aluminium	Quiz 6
Week 7 - 22 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Tools & machines - Hand tools, metalwork stakes and portable power tools	Quiz 7
Week 8 - 29 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Tools and Machines - the metal lathe and drilling machine	Quiz 8
Week 9 - 06 May 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Tools and Machines - Seams, edges and joining with rivets and screws	Quiz 9
Week 10 - 13 May 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop Technologies For Schools: A Combined Study	Tools and Machines - Soft soldering, art metalwork and decorative surface finishing	Quiz 10 Assessment 2: Written Assessment due: 19/05/2024
Week 11 - 20 May 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Design Basics: What is Design?	The Design Process.	Assessment 1: Quizzes due: 02/06/2024
Week 12 - 27 May 2024		
Module/Topic	Chapter	Events and Submissions/Topic

Review and finalise assessments	Workshop Technologies For Schools: A Combined Study	Assessment 1: Quizzes due: 02/06/2024
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

Assessment Tasks

1 Online Quiz(zes)

Assessment Type

Online Quiz(zes)

Task Description

10 Multi-Choice Online Quizzes: 20% total marks Quizzes will be based on weekly readings from the assigned text book. Quizzes will be available on the Moodle website until 23.59pm 02/06/24. Students will be allowed a maximum of 1 hour and two attempts to complete each quiz. The highest scoring attempt will be used for grading.

Please note that results from all 10 guizzes contribute to the overall mark of 20%

For students to achieve an overall pass mark for this course all three assessments must be submitted/completed and receive a minimum pass mark.

Number of Quizzes

10

Frequency of Quizzes

Other

Assessment Due Date

02/06/2024

Return Date to Students

Review/Exam Week Monday (3 June 2024)

Weighting

20%

Minimum mark or grade

50% of Quiz assessment grade

Assessment Criteria

Students will be assessed over the duration of the Term in relation to the following:

- Knowledge and understanding and application of workshop processes
- Ability to work independently with limited assistance

Referencing Style

American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Learning Outcomes Assessed

• Demonstrate knowledge and understanding of metal industry practices

Graduate Attributes

- Communication
- Problem Solving
- Ethical practice

2 Written Assessment

Assessment Type

Written Assessment

Task Description

Students are required to develop a Unit Plan and Project suitable for either a year 7, year 8, year 9 or year 10 student in a Metalwork workshop.

The assignment will consist of a:

- Rationale for the Project,
- What Year Level the Project is targeting,
- An accurate Dimensioned Working Drawing of the Project,
- A Detailed Work Procedure
- A Criteria Sheet.

An example of a suitable unit plan has been made available under the Resources Tab on the Moodle Website.

For students to achieve an overall pass mark for this course all three assessments must be submitted/completed and receive a minimum pass mark.

Assessment Due Date

19/05/2024

Return Date to Students

Review/Exam Week Monday (3 June 2024)

Weighting

30%

Minimum mark or grade

50% of Written Assessment grade

Assessment Criteria

Assessment Criteria

Students are assessed on the following criteria:

- Ability to present graphical information
- Ability to express and develop an idea
- · Ability to present work effectively

Referencing Style

• American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Learning Outcomes Assessed

- Apply theories of materials fabrication, specifically metal, underpinning the content of middle years industrial technology and design teaching
- · Investigate processes used to produce fabricated materials that may be used in school-based projects
- Explain relevant facility maintenance processes and procedures in a secondary school workshop
- Critically evaluate specific applications for metal working tools and equipment used in Middle Years of Learning
- Apply Occupational Health and Safety legislation in the school work place
- Analyse preferred implementation processes for working with fabricated materials through sequenced design processes
- Demonstrate a professional capacity to communicate and work in peer learning teams.

Graduate Attributes

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

3 Practical Assessment

Assessment Type

Practical Assessment

Task Description

Compulsory Residential School 1st Res School: Monday 8/4/24 - Wednesday 10/4/24, 2nd Res School Thursday 11/4/24 to Saturday 13/4/24, 50% total marks

Residential school introduces students to projects which target the junior year levels. Students will be using hand tools, machinery and equipment to fabricate five projects. Residential School gives students the opportunity to develop their hand skills, knowledge & understanding of workshop procedures and processes. Students will be assessed on the quality and presentation of their five projects, in addition to their knowledge and understanding and application of workshop processes, and their ability to work independently with limited assistance.

For students to achieve an overall pass mark for this course all three assessments must be submitted/completed and receive a minimum pass mark.

Assessment Due Date

13/04/2024

Return Date to Students

Review/Exam Week Monday (3 June 2024)

Weighting

50%

Minimum mark or grade

50% of Practical Assessment grade

Assessment Criteria

Students will be assessed over the residential in relation to the following:

- Practical expertise
- Quality and presentation of their five projects
- Knowledge and understanding and application of workshop processes
- Ability to work independently with limited assistance

Referencing Style

American Psychological Association 7th Edition (APA 7th edition)

Submission

Offline

Learning Outcomes Assessed

- Apply theories of materials fabrication, specifically metal, underpinning the content of middle years industrial technology and design teaching
- Investigate processes used to produce fabricated materials that may be used in school-based projects
- Explain relevant facility maintenance processes and procedures in a secondary school workshop
- Critically evaluate specific applications for metal working tools and equipment used in Middle Years of Learning
- Apply Occupational Health and Safety legislation in the school work place
- Analyse preferred implementation processes for working with fabricated materials through sequenced design processes
- Demonstrate a professional capacity to communicate and work in peer learning teams.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- · Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- 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 <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?



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