SAFE20011 *Exposures and Health Risk*
Term 2 - 2022

Profile information current as at 13/12/2025 03:54 pm

General Information

Overview

In Exposures and Health Risk you will use current methods to analyse contemporary issues in occupational health and hygiene. The unit content will emphasise the role of toxicology, the nature of illness and injury caused by exposure to hazards and practical ways to assess risk. You will develop practical solutions for the advanced elimination and risk management of occupational health and hygiene hazards. On successful completion of this unit, you will be able to use a systems oriented approach to apply your knowledge to new issues of health risk as they arise in the workplace.

Details

Career Level: *Postgraduate*
Unit Level: *Level 8*
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 2 - 2022

- Online

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 Postgraduate 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. **Written Assessment**
Weighting: 40%
2. **Group Work**
Weighting: 40%
3. **Online Quiz(zes)**
Weighting: 20%

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

Feedback

Remove all group work from assessment items.

Recommendation

Group work will remain as an assessment item as it is a graduate attribute and important for people working in this area. However, the way that it is communicated and assessed will be reviewed.

Unit Learning Outcomes

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

1. Analyse actual occupational health cases and demonstrate individual initiative and effective teamwork skills in problem solving.
2. Apply a systems approach to complex problem solving in diverse occupational health environments.
3. Apply the principles of critical assessment of severity and urgency in occupational health.
4. Evaluate problems in occupational health, including indoor and outdoor environments.
5. Research and evaluate toxicology and the principles of the monitoring of place and person.
6. Appraise current knowledge of the nature of illness and injury associated with exposure to certain hazards.

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 - Written Assessment - 40%		•	•	•	•	•
2 - Group Work - 40%	•	•			•	
3 - Online Quiz(zes) - 20%			•	•		•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
1 - Knowledge	◦	◦	◦	◦	◦	◦
2 - Communication	◦	◦	◦	◦		

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
3 - Cognitive, technical and creative skills	○	○	○	○	○	
4 - Research	○	○	○	○	○	○
5 - Self-management	○	○				
6 - Ethical and Professional Responsibility	○	○	○	○	○	○
7 - Leadership	○					
8 - 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
1 - Written Assessment - 40%	○	○	○	○	○	○	○	
2 - Group Work - 40%	○	○	○	○	○	○	○	

Textbooks and Resources

Textbooks

There are no required textbooks.

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: Harvard (author-date)
For further information, see the Assessment Tasks.

Teaching Contacts

Ryan Kift Unit Coordinator
r.kift@cqu.edu.au

Schedule

Week 1 - 11 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Introduction to unit	Readings provided via Moodle	No tutorial this week

Week 2 - 18 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Occupational toxicology	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Week 3 - 25 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Risk management and exposure	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Week 4 - 01 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Chemical hazards 1- Dusts and particulates	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Week 5 - 08 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Chemical hazards 2 - Chemical contaminants	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Vacation Week - 15 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 22 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Biological hazards	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation Week 6 Moodle quiz is open all week and closes at 11:59pm on 28/08/22

Week 7 - 29 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Control of Hazards - Chemical and biological	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Week 8 - 05 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Physical hazards 1 - Noise, vibration and lighting	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation **Chemical and biological hazards** Due: Week 8 Monday (5 Sept 2022) 9:00 am AEST

Week 9 - 12 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Physical hazards 2 - Radiation and temperature	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Week 10 - 19 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Control of Hazards - Physical	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Week 11 - 26 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Biological monitoring and fitness for work	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation

Week 12 - 03 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Unit summary	Readings provided via Moodle	Online Zoom Tutorial - review questions and assessment preparation Assessment 2- Information Booklet Part A due Monday (03/10/22) 9:00am Week 12 Moodle quiz is open all week and closes at 11:59pm on 09/10/22

Review/Exam Week - 10 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
		Assessment 2- Information Booklet Part B due Monday (10/10/22) 9:00am

Exam Week - 17 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Chemical and biological hazards

Assessment Type
Written Assessment

Task Description
The lecturer will give you a list of real case studies. You are to choose one case study and use this information to identify one hazard that is a chemical hazard and one hazard that is a biological hazard. You will be required to:

- Provide an overview of all potential chemical and biological hazards in this case study.
- Identify the two hazards that the report will focus on.
- For each hazard, explain the type of hazard, routes of exposure and the states of matter (if relevant) in which the hazard occurs.
- For each hazard, explain why the hazard presents a risk to workers' health. This section must be justified using the literature such as legislation, texts and journal articles. You may include information about the toxicology of the chemicals, exposure, acute and chronic health effects as well as the health effects to workers and to industry as a whole.
- Describe the different ways that the hazards would be monitored and analysed using occupational hygiene monitoring methods. This must be related to the case study chosen and include information about the standard methodology that is used for both the monitoring techniques and comparison of the findings against a benchmark or standard. You must include information about how the sampling and analysis would actually be carried out for each hazard. This will include information about how the sampling of workers would be decided, who should be sampled and if repeat samples are required.
- Describe the relevant Legislation, Codes and Standards which apply to these hazards and the issues involved with meeting these requirements.
- Use the Hierarchy of Control to outline the ways that the hazards can be controlled.

The report should be written as a OHS officer or Health officer would write to a superior who has financial delegation.
A limit of 3000 worlds will be applied.

Assessment Due Date
Week 8 Monday (5 Sept 2022) 9:00 am AEST

Return Date to Students
Week 11 Monday (26 Sept 2022)

Weighting
40%

Assessment Criteria
This assessment will be graded according to the following criteria:

- Correctly identifies all possible hazards, explains the route of exposure for the two selected hazards (15%)
- Explains exposure and effect, and describes the potential health effects (20%)
- Describes the way that you would carry out monitoring for the hazards (15%)
- Outlines relevant legislative requirements and identifies the issues of compliance (15%)
- Proposes appropriate control measures (15%)
- Report structure and presentation including referencing (20%)

A detailed marking matrix will be provided in Moodle.

Referencing Style

- Harvard (author-date)

Submission
Online

Submission Instructions
Word or PDF format via the link on Moodle

Learning Outcomes Assessed

- Apply a systems approach to complex problem solving in diverse occupational health environments.
- Apply the principles of critical assessment of severity and urgency in occupational health.
- Evaluate problems in occupational health, including indoor and outdoor environments.
- Research and evaluate toxicology and the principles of the monitoring of place and person.
- Appraise current knowledge of the nature of illness and injury associated with exposure to certain hazards.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility
- Leadership

2 Information Booklet

Assessment Type
Group Work

Task Description
Task Description
There are two parts to this assignment:

Part A (Group component)
Working as a group you are required to develop a booklet on one physical hazard. You will be required to design a technical information/educational information booklet with the main emphasis of the assignment on the quality of the content presented:
Your assignment should include (but not be restricted to):

- Introduction to the workplaces where the exposure occurs, who your target audience is, important factors and specific concepts related to the working environment and exposure.

- The physical/chemical breakdown of the hazard (what it is) and its relationship to the related health effects, mechanisms of injury and any other relevant information.
- An explanation of the health effects of exposure, its manifestation and progression.
- The monitoring techniques, equipment, methodologies, legislation, benchmarks and standards that should be used in relation to the evaluation of the hazards.
- Describe the relevant Legislation, Codes and Standards which apply to this hazard and the issues involved with meeting these requirements.
- Control (using the hierarchy of control) and containment measures that could be introduced to reduce workplace exposure and prevent the occurrence of the adverse health effects or reducing its severity.

Bear in mind that this unit has an emphasis on the quantitative evaluation of occupational hazards, utilising standards, accepted methodologies, specialised equipment and benchmarks, so it is expected that your information booklet will focus on developing an accurate, useful, and technically detailed information source that will cover the aspects mentioned previously. All information provided should be supported with relevant authoritative references and /or supporting documentation. You are encouraged to use graphics and other relevant resources in order to develop a visually appealing yet informative resource.
Ensure you reference and acknowledge all sources of information, graphics, etc.
You will be assigned a group and allocated a physical hazard in Week 8.
Length 12 pages (max)

Part B (Individual component)
As an individual you will be required to review another teams Information booklet.
After submission of Part A, all teams information booklets will be deidentified and made available via Moodle. You are to select a booklet that is focused on a different physical hazard to the one that you completed. You will be provided with a marking criteria to review the chosen booklet.
Your review will then be submitted via Moodle.

Assessment Due Date

Part A is Due Monday (03/10/2022) of Week 12 at 09:00am. Part B is due Monday (10/10/2022) of Week 13 at 9:00am.

Return Date to Students

Weighting
40%

Minimum mark or grade
To pass this unit, students must attempt this assessment with a minimum grade of 50%.

Assessment Criteria
This assessment will be graded with the following criteria:

- Identifies and explains the background to the hazard, including the identification of the workplaces where exposure can be an issue (10%)
- Explains the way exposure occurs, its impacts, and describes the potential health effects (20%)
- Describes the way that monitoring would be completed for the hazard (15%)
- Outlines relevant legislative requirements and identifies the issues of compliance (10%)
- Proposes appropriate control measures (20%)
- Booklet structure and presentation including referencing (you may use Harvard or Vancouver style referencing for this assessment) (15%)
- Teamwork - you will have to assess yourself and your other team members using the peer and self assessment link (10%), If you do not complete this assessment you will review zero marks for this component.

A detailed marking matrix will be provided via Moodle.

Referencing Style

- Harvard (author-date)

Submission
Online Group

Submission Instructions
Word or PDF format via the link on Moodle

Learning Outcomes Assessed

- Analyse actual occupational health cases and demonstrate individual initiative and effective teamwork skills in problem solving.
- Apply a systems approach to complex problem solving in diverse occupational health environments.
- Research and evaluate toxicology and the principles of the monitoring of place and person.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility
- Leadership

3 Moodle Quizzes

Assessment Type
Online Quiz(zes)

Task Description
In week 6 and in week 12 you will be required to access a Moodle quiz. (20% of total marks, 10% for each quiz)
Each quiz will be based on the information that has been covered in lectures until (and including) that week.

Number of Quizzes
2

Frequency of Quizzes
Other

Assessment Due Date

Week 6 quiz will close at 11:59pm on 28/08/22. Week 12 quiz will close at 11:59pm on 09/10/22

Return Date to Students

Feedback is given when each quiz closes

Weighting
20%

Assessment Criteria
Marks will be awarded for correct answers.

Referencing Style

- Harvard (author-date)

Submission
Online

Submission Instructions
Access each quiz at the quiz link on Moodle

Learning Outcomes Assessed

- Apply the principles of critical assessment of severity and urgency in occupational health.
- Evaluate problems in occupational health, including indoor and outdoor environments.
- Appraise current knowledge of the nature of illness and injury associated with exposure to certain hazards.

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