



SAFE20011 *Exposures and Health Risk*

Term 2 - 2017

Profile information current as at 25/04/2024 11:46 am

All details in this unit profile for SAFE20011 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

In Exposures and Health Risk students will use a problem based approach to analyse contemporary issues in occupational health. The unit content will emphasise the role of toxicology, the nature of illness and injury caused by exposure to hazards and the principle of critical assessment of urgency and severity. Students will develop a practical solutions approach to the advanced elimination and risk management of hazards. On successful completion of this unit, students will be able to use a systems oriented approach to extend and apply their 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 - 2017

- Distance

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. **Group Work**

Weighting: 30%

2. **Portfolio**

Weighting: 70%

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

Group work had challenges but generally worked well.

Recommendation

Review the group work project and consider the use of a group contract.

Action

No action has yet been taken as this unit is no longer offered in Term 1. This unit will be offered in Term 2.

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.

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
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Schedule

Week 1 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Course		

Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Occupational toxicology		

Week 3 - 24 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Risk Management and Exposure		

Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Chemical hazards 1- Dusts and particulates		

Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Chemical hazards 2- Chemical contaminants and Metals		

Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Biological Hazards		Moodle Quiz (Open all week)

Week 7 - 28 Aug 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Control of Hazards- Chemical and biological		Group Written Assignment 1 Due: Week 7 Friday (1 Sept 2017) 11:45 pm AEST
Week 8 - 04 Sep 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Physical hazards 1- noise, vibration and lighting		
Week 9 - 11 Sep 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Physical hazards 2- radiation and temperature		
Week 10 - 18 Sep 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Control of Hazards- Physical		
Week 11 - 25 Sep 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Health monitoring and fitness for work		Portfolio Due: Week 11 Friday (29 Sept 2017) 11:45 pm AEST
Week 12 - 02 Oct 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Course Summary		Moodle Quiz (Open all week)
Review/Exam Week - 09 Oct 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 16 Oct 2017		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Group Written Assignment 1

Assessment Type

Group Work

Task Description

Group Written Assignment 1

Details

For assignment 1 the lecturer will assign you to a group and set a real case study that involves one chemical and one biological hazard.

Working and collaborating with your group, you will be required to

- Identify all potential hazards in this case study.
- Identify the two hazards that the report will focus on including the class of hazard that they are (one must be a chemical hazard and one biological).
- Explain what the routes of exposure are and the states of matter (if relevant) that the hazard occurs as.
- 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. This must be related to the case study given 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.
- 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 Consultant might write to a Client.

Assessment Due Date

Week 7 Friday (1 Sept 2017) 11:45 pm AEST

Return Date to Students

Week 10 Friday (22 Sept 2017)

All assignment returned 21 Days after submission

Weighting

30%

Minimum mark or grade

This assessment must be submitted to be eligible to successfully pass this course.

Assessment Criteria

Assessment Criteria

Assignment Word count: 3000 words

Assignment 1 accounts for 30% of the course grade

This assessment will be graded with 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%)

Referencing Style

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

Submission

Online Group

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.
- Apply the principles of critical assessment of severity and urgency in occupational health.
- 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 Portfolio

Assessment Type

Portfolio

Task Description

Portfolio Assignment

There are 2 parts to this assignment. (70% of total marks)

Part 1: Details

information booklet development (30% of total marks)

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, important factors and specific concepts related to the working environment and exposure.
- The physics/chemical breakdown of the hazard (what it is) and its relationship to the related health effects, mechanisms of injury and so on (a literature based discussion with references).
- An explanation of the health effects of exposure, its manifestation and progression. Draw on theoretical sources such as journal articles, website, documents etc. (reference and acknowledge all sources).
- The monitoring techniques, equipment, methodologies, benchmarks and standards that should be used in relation to the evaluation of the hazards. This section should be supported by information from a variety of sources.
- 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 course 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. 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.

Part 2 Details

Moodle Quizzes

In week 6 and in week 12 you will be required to access a Moodle quiz. (40% of total marks, 20% for each quiz) Each quiz will be based on the information that has been covered in lectures until (and including) that week.

Assessment Due Date

Week 11 Friday (29 Sept 2017) 11:45 pm AEST

Due Week 11 Friday 27 May 2016 at 23:45 AEST

Return Date to Students

Exam Week Friday (20 Oct 2017)

Weighting

70%

Minimum mark or grade

This assessment must be submitted to be eligible to successfully pass this course.

Assessment Criteria

Part A- Assessment criteria

Length- 10 pages max.

This assessment will be graded with the following criteria

- Identifies and explains the background to the hazard to be covered, including the identification of the workplaces where exposure can be an issue. (15%)
- Explains exposure and effect, and describes the potential health effects (25%)
- Describes the way that you would carry out monitoring for the hazards (20%)
- Proposes appropriate control measures (20%)
- Booklet structure and presentation including referencing (20%)

Part B- Assessment criteria

- Marks will be awarded for correct answers

Referencing Style

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

Submission

Online

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

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