

In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.



OCHS13019 *Prevention Through Design*

Term 2 - 2024

Profile information current as at 19/05/2024 08:10 am

All details in this unit profile for OCHS13019 have been officially approved by CQU University 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

You will develop competence and confidence in using prevention through design (PtD) strategies and tools. PtD, or 'safe design', is a process of hazard identification and risk assessment to eliminate or minimize risk of injury and anticipate failure modes throughout the life of the product or system. You will be given the knowledge needed to optimise human performance and enhance safety in a socio-technical environment. Topics include safe design principles, optimisation of the design process, life cycle analysis, hazard and operability studies, Fault Tree Analysis, Failure Modes and Effect Analysis and strategic design risk assessment using the Safety Case. There is an emphasis on human factors engineering, the principles of technology adoption and consideration of the notion of disruptive technologies.

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-Requisite:- 72 credit points including successful completion of AINV11002 and either OCHS13008 or OCHS12019
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 - 2024

- 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 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

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 Unit Coordinator Reflections

Feedback

Feedback provided to students is rated highly, though can be further improved.

Recommendation

Place overall feedback in the Assessment Tile on Moodle to ensure all students can easily find it.

Feedback from Unit Coordinator Reflections

Feedback

Students appreciate the real-world examples that enhance their learning throughout the term.

Recommendation

Continue to provide real-world examples during tutorials to enhance industry relevance.

Feedback from Student Unit and Teacher Evaluation data

Feedback

Some students find the lectures that are broken down into smaller recordings harder to follow than whole lectures often provided in other units. However, in past years, students who work in remote and regional areas have commented that they appreciate the series of shorter recordings due to weaker/limited internet bandwidth in these locations.

Recommendation

To contribute to learning accessibility and learning inclusion, keep the series format for pre-recorded lectures. In addition, to help students gain a broader perspective of their student cohort needs, provide an explanation for the series of shorter recordings at the beginning of term, Week 1.

Unit Learning Outcomes

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

1. Appraise design as an effective strategy to minimise injuries, illnesses and fatalities.
2. Evaluate designs from a life cycle approach.
3. Identify past and present opportunities and challenges to achieving 'prevention through design' including the design process, human factors engineering, adoption of new technology and impact of disruptive technologies.
4. Evaluate potential risks associated with design issues in socio-technical systems around culture, processes, structures, equipment, tools and people by employing appropriate analytical methods.
5. Assess the value of the elimination of hazards through the redesign of buildings and structures, work environments, materials, plant (machinery and equipment) job tasks and work environments.
6. Create a systematic response to a design problem that incorporates the prevention through design principles and methods.
7. Appraise design sub-optimisation and plant operational parameters as a member of a safety case design team

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Portfolio - 50%		•	•	•		•	•
2 - Group Work - 20%	•	•	•	•			
3 - Presentation and Written Assessment - 30%		•	•	•	•		

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
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 - 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	9	10
1 - Portfolio - 50%	•	•	•	•	•	•	•	•		
2 - Group Work - 20%	•	•	•	•	•	•	•	•		
3 - Presentation and Written Assessment - 30%	•	•	•	•		•		•		

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 17 June 2024

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.