



# AINV20008 *Investigation of Human Factors*

## Term 1 - 2018

Profile information current as at 26/04/2024 03:00 pm

All details in this unit profile for AINV20008 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 will provide students with an advanced understanding of human factors investigation methods and models and the contemporary human factors, organisational and safety culture tenets which underpin effective accident prevention and investigation. This will include analysis and investigation of the role of the human in modern socio-technical systems and systems failures, human factors engineering and methods for investigating and analysing safety culture and its influence on the causation of accidents.

### 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 1 - 2018

- 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 Discussion**

Weighting: 20%

#### 2. **Written Assessment**

Weighting: 40%

#### 3. **Written Assessment**

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 [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 evaluations and lecturer reflection

##### Feedback

Students loved the learning design of this unit including assessment, community of practice and supportive environment.

##### Recommendation

Continue with this learning design of this unit.

#### Feedback from Student evaluations and lecturer reflection

##### Feedback

Students felt challenged by some resourcing aspects of the unit this term.

##### Recommendation

Students noted resourcing challenges that had been unanticipated at the planning stage during the term. Assessment of resourcing levels should occur throughout the term to ensure the students have the very best learning experience.

## Unit Learning Outcomes

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

1. Appraise the role that human factors has in accident causation.
2. Critique and apply contemporary human factors investigation tools and techniques.
3. Evaluate the contribution that organisational factors and safety culture have on accident causation.
4. Recognise the shortcomings in applications of the "blame" and "no-blame" cultures and their impact on investigation.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Group Discussion - 20%	•	•		
2 - Written Assessment - 40%	•	•		
3 - Written Assessment - 40%			•	•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Knowledge	○	○	○	○
2 - Communication				○
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 - Group Discussion - 20%	○	○	○	○	○	○	○	
2 - Written Assessment - 40%	○	○	○	○	○	○		
3 - Written Assessment - 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

**Karen Klockner** Unit Coordinator  
[k.klockner@cqu.edu.au](mailto:k.klockner@cqu.edu.au)

## Schedule

### Week 1 - 05 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Introduction: Getting to know you, Moodle and this course		Class Zoom Session

### Week 2 - 12 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 1: Human factors and accident causation		Class Zoom Session

### Week 3 - 19 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 1: Human factors and accident causation		Class Zoom Session

### Week 4 - 26 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 1: Human factors and accident causation		Class Zoom Session

### Week 5 - 02 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 1: Human factors and accident causation		Class Zoom Session

### Vacation Week - 09 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 - 16 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 2: Human factors investigation methods and tools		Class Zoom Session
		<b>Tutorial activities</b> Due: Week 6 Friday (20 Apr 2018) 11:45 pm AEST

### Week 7 - 23 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 2: Human factors investigation methods and tools		Class Zoom Session

### Week 8 - 30 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 2: Human factors investigation methods and tools		Class Zoom Session

### Week 9 - 07 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 2: Human factors investigation methods and tools		Class Zoom Session

## Week 10 - 14 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 2: Human factors investigation methods and tools		Class Zoom Session <b>Annotated Mindmap and Bibliography</b> Due: Week 10 Monday (14 May 2018) 11:45 pm AEST

## Week 11 - 21 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Module 3: Bringing it altogether		Class Zoom Session

## Week 12 - 28 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Catch up & review		Class Zoom Session <b>Report</b> Due: Week 12 Friday (1 June 2018) 11:45 pm AEST

## Review/Exam Week - 04 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic
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## Exam Week - 11 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic
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## Assessment Tasks

### 1 Tutorial activities

#### Assessment Type

Group Discussion

#### Task Description

Students will complete a variety of tutorial activities as directed in Moodle during the first 5 weeks of class. Further information will be provided through Moodle on a week by week basis.

#### Assessment Due Date

Week 6 Friday (20 Apr 2018) 11:45 pm AEST

#### Return Date to Students

Week 7 Friday (27 Apr 2018)

#### Weighting

20%

#### Assessment Criteria

As a general rule assessment criteria for all assessment items include

1. (90%) Content—includes the accuracy, relevance and application of key concepts, analysis, argument, language and grammar used in answering a question or report (see marking criteria for individual requirements).
2. (10%) References—includes the provision of a reference list and the application of the Harvard style for referencing information, data, tables or images sourced for the assignment or report.

Specific assessment criteria and a marking matrix for each assessment piece will be provided through Moodle.

#### Referencing Style

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

#### Submission

Online

#### Learning Outcomes Assessed

- Appraise the role that human factors has in accident causation.
- Critique and apply contemporary human factors investigation tools and techniques.

### Graduate Attributes

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

## 2 Annotated Mindmap and Bibliography

### Assessment Type

Written Assessment

### Task Description

For this task you will be required to review the literature and complete an annotated Mindmap and Bibliography based around a specific case study.

Your annotated mind map should evidence:

- What happened (describe circumstances)
- Why it happened (discuss findings)
- Nature of system and system parts
- Design failures and system life cycle
- Issues and findings related to people, workplaces & management
- Human factors investigation tools recommended to investigate the issues

The 'whys' above should draw on evidence in the report AND in the literature (i.e. bibliographies). It should include formal 'in text' referencing in the mind map and include a separate reference list.

This task will have a self and peer review component.

Further details about this task will be provided through Moodle.

### Assessment Due Date

Week 10 Monday (14 May 2018) 11:45 pm AEST

### Return Date to Students

Week 12 Monday (28 May 2018)

### Weighting

40%

### Assessment Criteria

As a general rule assessment criteria for all assessment items include

1. (90%) Content—includes the accuracy, relevance and application of key concepts, analysis, argument, language and grammar used in answering a question or report (see marking criteria for individual requirements).
2. (10%) References—includes the provision of a reference list and the application of the Harvard style for referencing information, data, tables or images sourced for the assignment or report.

Specific assessment criteria and a marking matrix for each assessment piece will be provided through Moodle.

### Referencing Style

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

### Submission

Online

### Learning Outcomes Assessed

- Appraise the role that human factors has in accident causation.
- Critique and apply contemporary human factors investigation tools and techniques.

## Graduate Attributes

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

## 3 Report

### Assessment Type

Written Assessment

### Task Description

This problem solving activity will extend the work done in Assessment 2. There will be three options available to complete this assignment depending on the students own circumstances and interests. It will also include an evaluation of the contribution that organisational factors and safety culture have on accident causation with reference to the topics covered in Module 1 & 2. Further information will be provided through Moodle.

### Assessment Due Date

Week 12 Friday (1 June 2018) 11:45 pm AEST

### Return Date to Students

Review/Exam Week Friday (8 June 2018)

### Weighting

40%

### Assessment Criteria

As a general rule assessment criteria for all assessment items include

1. (90%) Content—includes the accuracy, relevance and application of key concepts, analysis, argument, language and grammar used in answering a question or report (see marking criteria for individual requirements).
2. (10%) References—includes the provision of a reference list and the application of the Harvard style for referencing information, data, tables or images sourced for the assignment or report.

Specific assessment criteria and a marking matrix for each assessment piece will be provided through Moodle.

### Referencing Style

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

### Submission

Online

### Learning Outcomes Assessed

- Evaluate the contribution that organisational factors and safety culture have on accident causation.
- Recognise the shortcomings in applications of the "blame" and "no-blame" cultures and their impact on investigation.

## Graduate Attributes

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



## 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