



# AINV12004 Investigation Domain Contexts

## Term 2 - 2018

Profile information current as at 05/10/2023 09:25 am

All details in this unit profile for AINV12004 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 the opportunity to compare and contrast the investigative domains of air, rail, road and industrial safety. Learners will evaluate the basic principles of accident investigation that are unique to each of the domains.

#### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

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 - 2018

- Adelaide
- Brisbane
- Bundaberg
- Distance
- Gladstone
- Melbourne
- Perth
- Rockhampton
- Sydney

#### 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

#### 1. **Online Quiz(zes)**

Weighting: 10%

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

Weighting: 40%

#### 3. **Written 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 [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 Have Your Say

##### Feedback

Having other lecturers present on topics that are their area of expertise encouraged engagement between the students and the lecturer

##### Recommendation

Continue to use various lecturers to present the material related to their area of expertise.

#### Feedback from Have Your Say

##### Feedback

Students requested that the maritime domain be introduced into the unit.

##### Recommendation

Include the maritime domain in the areas to be taught.

#### Feedback from Have your say

##### Feedback

Students found there was not enough time between the last evaluation paper and the final comparison assignment. This did not give adequate time to act on feedback.

##### Recommendation

Ensure that dates set for assignments give adequate time between them to allow feedback to be acted upon.

## Unit Learning Outcomes

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

1. Explain the basic principles of accident investigation that are unique to air, rail, road, and industrial accident contexts.
2. Evaluate the aspects of accident investigation and forensics unique to air, rail, road and industrial contexts.
3. Compare and contrast the domains of air safety, rail safety, road safety and industrial safety.
4. Employ effective communication strategies appropriate to diverse investigative contexts.
5. Demonstrate reflective skills appropriate to the development of the intermediate practitioner.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Online Quiz(zes) - 10%	•			•	•
2 - Written Assessment - 40%	•	•		•	
3 - Written Assessment - 50%			•	•	•

## Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - Online Quiz(zes) - 10%	•		•	•		•	•	•		
2 - Written Assessment - 40%	•		•	•		•	•			
3 - Written Assessment - 50%	•		•	•		•	•	•		

## 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

**Sarah Munn** Unit Coordinator  
[s.munn@cqu.edu.au](mailto:s.munn@cqu.edu.au)

## Schedule

### Week 1 - 09 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Getting to know you, Moodle and this Unit		

### Week 2 - 16 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Module 1 - Common principles of the domains		
<ul style="list-style-type: none"><li>• Legislation</li><li>• Obligations</li><li>• Life Cycle</li><li>• Systems</li><li>• Reliability</li><li>• OHS</li><li>• Common safety issues between domains</li></ul>		

### Week 3 - 23 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Module 2 - Aspects that define a domain		
<ul style="list-style-type: none"><li>• Industries served</li><li>• Laws and Regulators</li><li>• Sciences</li><li>• Safety regimes and operations</li><li>• Forensic techniques</li><li>• Stakeholders</li></ul>		

### Week 4 - 30 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Lecture: Module 3 - Aviation		
<ul style="list-style-type: none"><li>• Context of aviation safety science</li><li>• Defining the aviation domain</li><li>• Regulatory framework</li><li>• Aviation Safety Management Systems</li><li>• Accident reporting</li></ul>		Quiz 1 Due 9.00am Monday 30 July 2018

### Week 5 - 06 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Lecture: Aviation continued

- Operations
- Aviation hazards
- Technologies unique to aviation
- Forensic technologies
- Investigation tools and methodologies

Quiz 2 Due 11.55pm Sunday 12 August 2018

**Vacation Week - 13 Aug 2018**

Module/Topic	Chapter	Events and Submissions/Topic
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**Week 6 - 20 Aug 2018**

Module/Topic	Chapter	Events and Submissions/Topic
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Lecture: Module 4 - Rail

- Context of rail safety science
- Defining the rail domain
- Regulatory framework
- Rail Safety Management Systems
- Accident reporting

**Week 7 - 27 Aug 2018**

Module/Topic	Chapter	Events and Submissions/Topic
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Lecture: Rail continued

- Operations
- Rail hazards
- Technologies unique to rail
- Forensic technologies
- Investigation tools and methodologies

Domain Evaluation 1 - Air - Due 9.00am Monday 27 August 2018

**Week 8 - 03 Sep 2018**

Module/Topic	Chapter	Events and Submissions/Topic
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Lecture: Module 5 - Road

- Context of road safety science
- Defining the road domain
- Regulatory framework
- Road Safety Management Systems
- Accident reporting

**Week 9 - 10 Sep 2018**

Module/Topic	Chapter	Events and Submissions/Topic
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Lecture: Road continued

- Operations
- Road hazards
- Technologies unique to road
- Forensic technologies
- Investigation tools and methodologies

Domain Evaluation 2 - Rail - Due 9.00am Monday 10 September 2018

**Week 10 - 17 Sep 2018**

Module/Topic	Chapter	Events and Submissions/Topic
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Lecture: Module 6 - Industrial

- Context of industrial safety science
- Defining the industrial domain
- Regulatory framework
- Industrial Safety Management Systems
- Accident reporting

**Week 11 - 24 Sep 2018**

Module/Topic	Chapter	Events and Submissions/Topic
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- Lecture: Industrial continued
- Operations
  - Industrial hazards
  - Technologies unique to industry
  - Forensic technologies
  - Investigation tools and methodologies

Domain Evaluation 3 - Road - Due  
9.00am Monday 24 September 2018

### Week 12 - 01 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
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- Lecture: Module 7 - Examples of other domains
- Agriculture
  - Hospitality
  - Maritime
  - Medical
  - Emerging technologies

### Review/Exam Week - 08 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Domain Evaluation 4 - Industrial - Due  
9.00am Monday 8 October 2018

### Exam Week - 15 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
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### Domain Comparison Submission - 22 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Domain Comparison - Due 9.00am  
Monday 22 October 2018

## Term Specific Information

## Assessment Tasks

### 1 Online Quiz

#### Assessment Type

Online Quiz(zes)

#### Task Description

You are required to complete two quiz activities

#### Quiz 1 Moodle Post - Legislation in the domain (5 marks).

You will be required to explore the regulatory agency or agencies of one domain of your choice (aviation, rail, road and industrial) and:

1. Identify the Laws (Acts), regulations and other advisory documentation that defines the domain
2. Give a short description of five which explains how each assists to define the domain.

Your post should be limited to 500 words.

Provide a final reference list for the sources you have accessed and used. The final reference list is not included in your word count.

You will be able to see what your peers have posted only after you have posted your own submission.

Your response will be rated out of 5.

#### Quiz 2 Mind Map - Aspects that define a domain (5 marks)

Select a domain from the following options:

- Aviation

- Rail
- Road
- Marine

Your selection must be different from the one chosen in Quiz 1. The options do NOT include industrial. Based on the lecture material and your own research, prepare a mindmap that demonstrates aspects that define the domain.

Your post may be uploaded as an attachment.

You will be able to see what your peers have posted only after you have posted your own submission.

Your response will be rated out of 5.

### **Number of Quizzes**

2

### **Frequency of Quizzes**

Other

### **Assessment Due Date**

Quiz 1 is due 9.00am Monday 30 July 2018; Quiz 2 is due 11.55pm Sunday 12 August 2018

### **Return Date to Students**

Two weeks following submission due date

### **Weighting**

10%

### **Minimum mark or grade**

To pass this unit students must attempt both quizzes and obtain an aggregate score of at least 50% for the unit overall.

### **Assessment Criteria**

For Quiz 1 the following assessment criteria will apply:

1. Identification of the Laws (Acts), regulations and other advisory documentation that defines the domain
2. Short description of five which assists in defining the domain.

Where appropriate, sources used must be referenced in accordance with the Harvard system (non-graded requirement).

For Quiz 2 the following assessment criteria will apply:

1. Information provided is relevant and comprehensive to the chosen domain.

### **Referencing Style**

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

### **Submission**

Online

### **Learning Outcomes Assessed**

- Explain the basic principles of accident investigation that are unique to air, rail, road, and industrial accident contexts.
- Employ effective communication strategies appropriate to diverse investigative contexts.
- Demonstrate reflective skills appropriate to the development of the intermediate practitioner.

### **Graduate Attributes**

- Communication
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## **2 Domain Evaluation**

### **Assessment Type**

Written Assessment



## Task Description

This assessment task requires you to evaluate the aspects of accident investigation and forensics unique to aviation (10%), rail (10%), road (10%) and industrial (10%) safety.

At the end of each of the aviation, rail, road and industrial modules you are required to:

- Explore the web sites of the various regulatory and investigation agencies
- Access accident reports from the specific domain; and
- Access any public accident databases relative to the domains (links to some useful sources of information will be provided in Moodle)

and respond to the following:

1. What are the unique characteristics of this domain in relation to laws, technologies, operation and hazards?
2. What agencies are responsible for regulation and investigation in the domain?
3. What are the key definitions that define accident reporting in this domain and how are accidents reported?
4. What procedures and methods are prescribed/recommended in this domain?
5. What accident investigation/forensic methods are used that are unique to this domain?

Please note this assessment is to be submitted as four individual submissions, one for each domain.

Each submission should be approximately 1000 words.

A final reference list must be provided.

## Assessment Due Date

As per the study schedule.

## Return Date to Students

Three weeks after each submission.

## Weighting

40%

## Minimum mark or grade

To pass this unit students must pass this assessment and achieve an aggregate score of at least 50% for the unit overall.

## Assessment Criteria

For each domain submission the following assessment criteria will apply

1. Identified the unique characteristics of this domain in relation to laws, technologies, operations and hazards
2. Identified the agencies responsible for regulation and investigation in this domain
3. Explained key definitions that define accident reporting in this domain and how are accidents reported
4. Explained the procedures and methods prescribed/recommended in this domain
5. Explained the accident investigation/forensic methods used that are unique to this domain

Where appropriate, sources used must be referenced in accordance with the Harvard system (non-graded requirement)

## Referencing Style

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

## Submission

Online

## Learning Outcomes Assessed

- Explain the basic principles of accident investigation that are unique to air, rail, road, and industrial accident contexts.
- Evaluate the aspects of accident investigation and forensics unique to air, rail, road and industrial contexts.
- Employ effective communication strategies appropriate to diverse investigative contexts.

## Graduate Attributes

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

## 3 Domain Comparison

### Assessment Type

Written Assessment

### Task Description

This assessment task requires you to compare and contrast the domains of aviation safety, rail safety, road safety and industrial safety.

This assessment builds on the understandings derived in Assessment Task 2 - Domain Evaluation.

Drawing on the reports you accessed in Assessment 2 - Domain Evaluation, your learning and any additional material, respond to the following:

#### Part A (25%)

Compare and contrast the reports for each domain in relation to their effectiveness in

1. Understanding what happened
2. Communicating why it happened
3. Explaining methods of analysis
4. Enabling the reader to reach the same conclusions as the author/s
5. Providing recommendations that are directly linked to the analysis and conclusions

#### Part B (25%)

Compare and contrast the domain investigation framework as a tool for domain learning and accident prevention

You must ensure that you use examples from the reports within your discussion and use current relevant literature to support your argument

Your submission should not exceed 3000 words for both Part A and B.

A final reference list must be provided.

### Assessment Due Date

Monday 22 October 2018

### Return Date to Students

Within two weeks of submission date

### Weighting

50%

### Minimum mark or grade

To pass this unit students must pass this assessment and achieve an aggregate score of at least 50% for the unit overall.

### Assessment Criteria

#### Part A (25%)

1. Understanding what happened
2. Communicating why it happened
3. Explaining methods of analysis
4. Enabling the reader to reach the same conclusions as the author/s
5. Providing recommendations that are directly linked to the analysis and conclusions

#### Part B (25%)

1. Degree of comparison and contrast of the domain investigation framework as a tool for domain learning and accident prevention
2. Use of examples from the reports accessed in Assessment 2 - domain evaluations
3. Use of current relevant literature to support your argument

Where appropriate, sources used must be referenced in accordance with the Harvard system (non-graded requirement).

### Referencing Style

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

### Submission

Online

### Learning Outcomes Assessed

- Compare and contrast the domains of air safety, rail safety, road safety and industrial safety.
- Employ effective communication strategies appropriate to diverse investigative contexts.

- Demonstrate reflective skills appropriate to the development of the intermediate practitioner.

### **Graduate Attributes**

- Communication
- Critical Thinking
- Information Literacy
- 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 [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