AVAT13014 *Aviation Safety Management Systems*
Term 2 - 2022

Profile information current as at 20/04/2024 05:06 pm

All details in this unit profile for AVAT13014 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 this unit you will gain an insight into aviation safety management systems. You will learn the skills to establish a safety management system tailored to an individual aviation operation considering organisational structures, accountabilities, policies and procedures. You will also gain knowledge about the International Civil Aviation Organisation's mandate for member states to establish a State Safety Program and how each organisation within a state is required to establish a Safety Management System subject to the rules and regulations of that jurisdiction.

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
Prerequisites: AVAT13011 Aviation Human Factors (Air Transport Pilot Licence) and AVAT11006 Aviation Law
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

- Bundaberg
- Cairns
- 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

1. **Written Assessment**
Weighting: 30%
2. **Presentation**
Weighting: 30%
3. **Examination**
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 Unit evaluations

Feedback

Low student response rate, 1 out of 23.

Recommendation

Actively engage the students with more interactive assessments to give the students ownership of the learning process. This should help to improve student response rates.

Unit Learning Outcomes

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

1. Analyse the elements of a safety management system in an aviation environment
2. Evaluate organisational structures, accountabilities, policies and procedures for the development of a safety management system
3. Research information on state safety programs and safety management systems
4. Critique a safety management system.

N/A. There is no external accreditation.

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
1 - Written Assessment - 30%		•		
2 - Presentation - 30%	•	•	•	•
3 - Examination - 40%	•		•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Communication	•	•	•	•
2 - Problem Solving		•		•

Graduate Attributes	Learning Outcomes			
	1	2	3	4
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 - Written Assessment - 30%	•	•		•				•		
2 - Presentation - 30%	•	•	•	•		•	•	•		
3 - Examination - 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: American Psychological Association 7th Edition (APA 7th edition)
For further information, see the Assessment Tasks.

Teaching Contacts

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Schedule

Week 1 - 11 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Introduction	Chapter 1 - Introduction to SMS	

Week 2 - 18 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Regulatory Framework - Safety		

Week 3 - 25 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Operational Risk Management	Chapter 3	

Week 4 - 01 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
The Human Element in SMS - Part 1		

Week 5 - 08 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
The Human Element in SMS - Part 2	Chapter 3	

Vacation Week - 15 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 22 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Safety Management Systems - Part 1	Chapters 1 and 3	

Week 7 - 29 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Safety Management Systems - Part 2	Chapters 4, 5 and 6	**WRITTEN ASSESSMENT 30%** Due: Week 7 Friday (2 Sept 2022) 11:00 pm AEST

Week 8 - 05 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
IATA Safety Auditing	Chapter 11 Page 317	

Week 9 - 12 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Quality Management Systems Part 1	Chapters 3 and 8	

Week 10 - 19 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic

Quality Management Systems Part 2	Chapters 3 and 8	**WRITTEN ASSESSMENT 30%** Due: Week 10 Friday (23 Sept 2022) 11:00 pm AEST

Week 11 - 26 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
SMS Implementation and Management	Chapters 9 and 11	

Week 12 - 03 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
SMS Review - Part 1	Chapters 1-6	

Review Week - 10 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
SMS Review Part 2	Chapters 7-11	

Exam Week - 17 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 WRITTEN ASSESSMENT 30%

Assessment Type
Written Assessment

Task Description
Assignment description
•This assignment is based on Learning Objective 1
1) Analyse the elements of a safety management system in the aviation environment

- This will be an individual assignment comprising of a written report of between 1000 and 1500 words +/- 5 % using the APA7 referencing style
- The report will require you to analyse and discuss your findings on the aircraft accident, using the HFACS model for accident analysis
- You will need to examine whether all four parts of the HFACS model are required to complete the report, as it may not necessarily apply to all of them.
- The four sections are Organisational influences, Unsafe acts, Preconditions for unsafe acts and finally Unsafe acts. (The last two however must be in the report)
- Link to ATSB Final report (https://www.atsb.gov.au/media/5778808/ao-2019-072_final.pdf)
- The marking rubric for the report can be found under the Assessment 1
- The questions for the report can be found under the Assessment 1 tab in a pdf. document

Assessment Due Date
Week 7 Friday (2 Sept 2022) 11:00 pm AEST

Return Date to Students
Week 9 Friday (16 Sept 2022)

Weighting
30%

Assessment Criteria
Assessment rubric will be discussed during the tutorial in Week 2 and available in a pdf. document under Assessment 2

Referencing Style

- American Psychological Association 7th Edition (APA 7th edition)

Submission
Online

Learning Outcomes Assessed

- Evaluate organisational structures, accountabilities, policies and procedures for the development of a safety management system

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Ethical practice

2 WRITTEN ASSESSMENT 30%

Assessment Type
Presentation

Task Description
Assignment description
The learning outcome of this assessment include 2,3 and 4
2) Evaluate organisational structures, accountabilities, policies and procedures for the development of a safety management system
3) Research information on state safety programs and safety management systems
4). Critique a safety management system

- This will be a group assessment comprising 4-5 students in each group, each group will design an Accimap diagram and answer the following three questions in a report format of approximately 3000 words +/- 5%
- Each group will elect a group leader who once the assessment has been completed will submit it on behalf of the group for marking
- Part of this assessment will require you to construct an Accimap diagram that relates specifically to Asiana Airlines. Your task as a group will be required to analyse and discuss the various aspects which relate to Safety Management Systems (SMS) and the aviation industry as a whole
- The National Transport Safety Board (NTSB) report will be used with reference to Asiana Airlines and will be the primary source of information for this assessment. The document will be available under the Assessment 2 in Moodle
- Accimaps have numerous methods and variations which relate to how one could be constructed. However, to keep a standardised format there will be a guideline supplied that must be followed to produce the Accimap for the first part of the question.
- The Accimap diagram produced will not be included in the word count nor will any of the references, ensuring that the Accimap is clearly identified

NOTE. When constructing the Accimap diagram you should avoid simply repeating or paraphrasing the findings from the NTSB report, or any other data source you may wish to use to analyze and discuss the findings of your outcome

- The questions for the report can be found under the Assessment 2 tab in a pdf. document

Assessment Due Date
Week 10 Friday (23 Sept 2022) 11:00 pm AEST

Return Date to Students
Week 12 Friday (7 Oct 2022)

Weighting
30%

Assessment Criteria
The assessment rubric will be discussed during the tutorial in Week 2. and available in a pdf document under Assessment 2

Referencing Style

- American Psychological Association 7th Edition (APA 7th edition)

Submission
Group

Submission Instructions
The group leader is to submit the assessment on behalf of the students within his or her group and each student within that group will receive the same mark

Learning Outcomes Assessed

- Analyse the elements of a safety management system in an aviation environment
- Evaluate organisational structures, accountabilities, policies and procedures for the development of a safety management system
- Research information on state safety programs and safety management systems
- Critique a safety management system.

Graduate Attributes

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

Examination

Outline
Complete an invigilated examination.

Date
During the examination period at a CQUniversity examination centre.

Weighting
40%

Length
150 minutes

Minimum mark or grade
50%

Exam Conditions
Restricted.

Materials
Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).
No calculators permitted

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