AVAT13014 *Applied Safety Management Systems*

Term 2 - 2024

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.

Corrections

Unit Profile Correction added on 15-07-24

Assessment 3 Title - Online Test

Assessment 3 Task Description - Students will complete an online test that is a combination of multiple choice and short answer questions, comprehensively covering all topics from the unit.

Assessment 3 Assessment Due Date - Friday, October 18 at 5:00PM.

Assessment 3 Return Date to Students - Within two weeks after due date

Assessment 3 Assessment Criteria - Students are graded based on the accuracy of answers.

Assessment 3 Submission - Online

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
Students must meet all requisites: AVAT11013 Introduction to Aviation AND AVAT11010 Aviation Safety Fundamentals
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
- 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. **Online Test**
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 SUTE

Feedback

Assessment requirements were not clear.

Recommendation

Assessment descriptions should be reviewed and updated.

Feedback from SUTE

Feedback

Assessment feedback was insufficient/unclear.

Recommendation

Assessment rubric and feedback format should be updated to make it easier to provide detailed feedback.

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 - Online Test - 40%	●		●	●

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
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				

Textbooks and Resources

Textbooks
AVAT13014

Prescribed

Safety Management Systems in Aviation
Edition: 3 (2023)
Authors: Alan J. Stolzer, Robert L. Sumwalt, and John J. Goglia
Taylor & Francis Group
ISBN: 9781000867091
This textbook is available through the CQU library.

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

Steve Leib Unit Coordinator
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Schedule

Week 1 - 08 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Introduction	Chapter 1 - Introduction to SMS	Complete learning material and questions for week 1

Week 2 - 15 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Regulatory Framework - Safety		Complete learning material and questions for week 2 Complete learning activity exercise 1 Mytown airport accident case study week 2

Week 3 - 22 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Operational Risk Management	Chapter 3	Complete learning material for week 3 Complete the week 3 quiz

Week 4 - 29 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic

| | | Complete learning material and SMS revision questions for weeks 3 and 4 Complete the week 4 quiz |
| The Human Element in SMS - Part 1 | | |

Week 5 - 05 Aug 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
The Human Element in SMS - Part 2	Chapter 3	Complete learning material for week 5 Complete the week 5 quiz

Vacation Week - 12 Aug 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
No Lectures	No Lectures	No Lectures

Week 6 - 19 Aug 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
Safety Management Systems - Part 1	Chapters 1 and 3	Complete learning material and SMS revision questions for weeks 5 and 6

Week 7 - 26 Aug 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
Safety Management Systems - Part 2	Chapters 4, 5 and 6	Complete learning material for week 7

Week 8 - 02 Sep 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
IATA Safety Auditing	Chapter 11 Page 317	Complete learning material and SMS revision questions for weeks 7 and 8

Week 9 - 09 Sep 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
Quality Management Systems Part 1	Chapters 3 and 8	Complete learning material for week 9

Week 10 - 16 Sep 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
Quality Management Systems Part 2	Chapters 3 and 8	Complete learning material for week 10

Week 11 - 23 Sep 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
SMS Implementation and Management	Chapters 9 and 11	Complete learning material for week 11

Week 12 - 30 Sep 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**
SMS Review - Part 1	Chapters 1-6	Complete learning material for week 12

Review Week - 07 Oct 2024

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

Exam Week - 14 Oct 2024

Module/Topic	**Chapter**	**Events and Submissions/Topic**

Assessment Tasks

1 Written Assignment 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 1500 words +/- 5 % using the APA7 referencing style as per CQU requirements
- The report will require you to analyse and discuss your findings on the aircraft accident, using the HFACS model for accident analysis
- The four main sections are Organisational influences, Unsafe acts, Preconditions for unsafe acts, and finally Unsafe acts. However, you will be required to examine all elements within each of the four sections that are within the HFACS framework that may relate to the accident.
- Link to ATSB Final report https://www.atsb.gov.au/media/5775076/ao-2017-024_final_v2.pdf
- The marking rubric for the report can be found under Assessment 1
- The questions for the report can be found under the Assessment 1 tab in a pdf. document
- **This assignment will require you to only answer the questions from information obtained in the ATSB report only.**

Assessment Due Date

There will be no extensions to this submission date

Return Date to Students

Within two week sand will be returned once each assessment has been marked.

Weighting
30%

Assessment Criteria
Assessment rubric will be discussed during the tutorial in Week 2 and available in a pdf. document under Assessment 1

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

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 Uberlingen

accident. Your task as a group will be necessary to analyse and discuss the various aspects which relate to Safety Management Systems (SMS) and the aviation industry as a whole

- The Ueberlingen German Federal Bureau of Aircraft Accidents Investigation.pdf will be the primary source of information for this assessment. The document will be available under Assessment 2 in Moodle
- Accimaps have numerous methods and variations which relate to how one could be constructed. However, to keep a standardised format, a guideline is supplied 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 German Federal Bureau of Aircraft Accidents or any other data source you may wish to use to analyze and discuss the results of your outcome***

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

Assessment Due Date

There will be no extensions to this submission date

Return Date to Students

Within a week and will be returned once each assessment has been marked

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.

No Assessment Title

Assessment Type
Online Test

Task Description
No Assessment Task Description

Assessment Due Date

Return Date to Students

Weighting
40%

Assessment Criteria
No Assessment Criteria

Referencing Style

- [American Psychological Association 7th Edition (APA 7th edition)](#)

Submission

No submission method provided.

Learning Outcomes Assessed

- Analyse the elements of a safety management system in an aviation environment
- Research information on state safety programs and safety management systems
- Critique a safety management system.

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