AVAT11010 *Safety of Airline and Airport Operations*
Term 2 - 2022

Profile information current as at 12/10/2024 01:10 pm

All details in this unit profile for AVAT11010 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
Safety of Airline and Airport Operations will provide you with a broad understanding of the application of safety processes within the aviation industry. You will also learn about the regulatory requirements for Safety Management Systems (SMS) contained in the International Civil Aviation Organization (ICAO) annex and develop the necessary skills to effectively implement aviation safety plans that impact stakeholders at various levels in the aviation community. You will recognise a systematic approach that is established using four main components including Safety Policy, Safety Assurance, Safety Risk Management, and Safety Promotion to managing safety. You will develop an effective safety management system using risk and quality management methods to achieve safety objectives.

Details
Career Level: *Undergraduate*
Unit Level: *Level 1*
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 - 2022

- 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. **Online Quiz(zes)**
Weighting: 30%
2. **Case Study**
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.

Unit Learning Outcomes

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

1. Describe the aviation industry organisational accident assessment process, including techniques used to identify hazards, risks and losses
2. Justify aviation safety management systems using fundamental concepts of aviation safety
3. Explore applications of the safety management system that is used in aviation organisations
4. Identify safety measurement parameters to enable an informed safety decision and ensure safety.

N/A

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 - Online Quiz(zes) - 30%	•	•		
2 - Case Study - 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				

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) - 30%				•		•		•		
2 - Case Study - 30%	•		•	•		•		•		
3 - Online Test - 40%			•	•		•		•		

Textbooks and Resources

Textbooks

AVAT11010

Prescribed

Managing the Risks of Organizational Accidents
(2016)
Authors: James Reason
Taylor & Francis
Lond , UK
ISBN: 9781134855421
Binding: eBook

Additional Textbook Information
This book is available to read online through the Library website. If you would like your own copy, you can purchase either paper or eBook copies at the CQUni Bookshop here: http://bookshop.cqu.edu.au (search on the Unit code).

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 - 11 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Unit introduction Individual and organizational accidents Nature and variety of defences	JR1	

Week 2 - 18 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Swiss Cheese Model Active failures and latent conditions Accident trajectory	JR1	

Week 3 - 25 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Human contribution to accidents Human performance	JR4	

Week 4 - 01 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Errors and successful actions Violations Rule-related behaviors	JR4	

Week 5 - 08 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Group Presentations	N/A	**Swiss Cheese Model Case Study** Due: Week 5 Monday (8 Aug 2022) 9:00 am AEST

Vacation Week - 15 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 22 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Error management Blame cycle	JR7	

Week 7 - 29 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Engineering a safety culture Safety Subcultures	JR9	

Week 8 - 05 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Safety subcultures continued	JR9	

Week 9 - 12 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
SMS1	Reference materials provided	

Week 10 - 19 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
SMS2	Reference materials provided	

Week 11 - 26 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
SMS3	Reference materials provided	

Week 12 - 03 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic

SMS4	Reference materials provided

Term Specific Information

Please contact the instructor via email.

Assessment Tasks

1 Quizzes

Assessment Type
Online Quiz(zes)

Task Description
There are 3 quizzes throughout this unit:

- Quiz 1 at the end of Week 2, covering basic safety concepts and SCM
- Quiz 2 at the end of Week 4, covering human contribution to accidents and performance concepts
- Quiz 3 at the end of Week 8, covering safety culture and safety subcultures

You have 30 minutes to complete each quiz, and only one attempt is permitted. Quizzes will open on Monday evenings in the week they are due and must be submitted by Friday at 5PM via the relevant portal in Moodle.

Number of Quizzes
3

Frequency of Quizzes
Other

Assessment Due Date

Return Date to Students

Weighting
30%

Assessment Criteria
Quizzes will be multiple choice and short answer.

Referencing Style

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

Submission
Online

assessmentOutcome

- Describe the aviation industry organisational accident assessment process, including techniques used to identify hazards, risks and losses
- Justify aviation safety management systems using fundamental concepts of aviation safety

assessmentGradAttribute

- Information Literacy
- Information Technology Competence
- Ethical practice

2 Swiss Cheese Model Case Study

Assessment Type
Case Study

Task Description
You will choose an airline or airport accident to research, and prepare a 5-10 minute presentation on a Swiss Cheese Model application of the accident for the class on Zoom during Week 5.

Assessment Due Date
Week 5 Monday (8 Aug 2022) 9:00 am AEST

In-class

Return Date to Students
Week 6 Monday (22 Aug 2022)

Weighting
30%

Assessment Criteria
This assessment is worth 30 points:

- Background of the accident and accident narrative (10 points)
- Application of the Swiss Cheese Model, including active failures and latent conditions (10 points)
- Presentation is clear and easy to understand, delivery is smooth and prepared, and questions are answered appropriately (10)

Referencing Style

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

Submission
Online

Submission Instructions
Via Zoom in Week 5

assessmentOutcome

- Explore applications of the safety management system that is used in aviation organisations
- Identify safety measurement parameters to enable an informed safety decision and ensure safety.

assessmentGradAttribute

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

3 Online Test

Assessment Type
Online Test

Task Description
This test will be due during exam week. It will only cover Safety Management Systems and Safety Culture concepts as discussed in Weeks 7-12.
You have up to 2 hours to complete the test, and only one attempt is permitted. The test will open on Monday evening in exam week and must be submitted by Friday at 5PM via the relevant portal in Moodle.

Assessment Due Date
Exam Week Friday (21 Oct 2022) 5:00 pm AEST

Return Date to Students

Weighting
40%

Assessment Criteria
This test is a combination of multiple choice and short answer questions.

Referencing Style

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

Submission
Online

assessmentOutcome

- Describe the aviation industry organisational accident assessment process, including techniques used to identify hazards, risks and losses
- Justify aviation safety management systems using fundamental concepts of aviation safety
- Explore applications of the safety management system that is used in aviation organisations
- Identify safety measurement parameters to enable an informed safety decision and ensure safety.

assessmentGradAttribute

- Critical Thinking
- Information Literacy
- Information Technology 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