



# AVAT12004 Aviation Theory IV

## Term 1 - 2017

Profile information current as at 21/04/2024 01:17 am

All details in this unit profile for AVAT12004 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 provides the operation, performance and planning theory, and the human performance and limitations theory, required by commercial pilot students wishing to undertake the CASA CPL examination. Topics covered include the aerodromes and ALA's, takeoff and landing Performance, climb, cruise and descent performance, weight and balance consideration, and the Alpha, Bravo, Charlie and Echo Loading Systems, and airspace consideration, weather Consideration, topography consideration, aircraft performance, flight plan preparation and submission, and basic health and fitness, hyperventilation, atmospheric pressure changes, anatomy of the ear, vision, illusions, motion sickness, hypoxia, and first aid and survival. In addition to the recommended printed materials, students must obtain current charts (WAC, ERC-L, VTC) and current documents (ERSA). The documentation is available from Air Services Australia in Melbourne or at select flight schools throughout Australia.

#### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

#### Pre-requisites or Co-requisites

Prerequisite: AVAT 11001

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 - 2017

- Bundaberg
- 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 12-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 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: 7%

2. **Online Quiz(zes)**

Weighting: 7%

3. **Online Quiz(zes)**

Weighting: 7%

4. **Online Quiz(zes)**

Weighting: 7%

5. **Online Quiz(zes)**

Weighting: 7%

6. **Online Quiz(zes)**

Weighting: 7%

7. **Online Quiz(zes)**

Weighting: 7%

8. **Online Quiz(zes)**

Weighting: 7%

9. **Online Quiz(zes)**

Weighting: 7%

10. **Online Quiz(zes)**

Weighting: 7%

11. **Written Assessment**

Weighting: 30%

### 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**

First quizzes seem to start well after the course delivery. Later quizzes seemed a little compressed. Not sure about the practicality of group work assignments for distant students

##### **Recommendation**

Reflect on the design of the group assignment

## Unit Learning Outcomes

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

1. Determine the safe and legal use for aerodrome or aeroplane landing areas (ALA) for take off and landing of an aircraft
2. Calculate take-off and landing requirements using the Take-Off Performance Chart and Landing Performance Chart in ISA conditions
3. Determine weight limits for maximum aeroplane climb performance and calculate power and velocity parameters to achieve minimum legal and safe performance for take off and climb out
4. Determine maximum aeroplane climb performance, including calculation power, velocity, best angle of climb, rate of climb and cruise climb
5. Evaluate Alpha, Bravo, Charlie and Echo loading systems for maximum fuel load and payload return
6. Prepare and submit a flight plan
7. Evaluate impact of human factors on safety, including other aircrew and passengers and determine appropriate responses

## 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 | 5 | 6 | 7 |
| 1 - Online Quiz(zes) - 7%    | •                 |   |   |   |   |   |   |
| 2 - Online Quiz(zes) - 7%    |                   | • |   |   |   |   |   |
| 3 - Online Quiz(zes) - 7%    |                   |   | • |   |   |   |   |
| 4 - Online Quiz(zes) - 7%    |                   |   |   | • |   |   |   |
| 5 - Online Quiz(zes) - 7%    |                   |   |   |   | • |   |   |
| 6 - Online Quiz(zes) - 7%    |                   |   |   |   |   | • |   |
| 7 - Online Quiz(zes) - 7%    |                   |   |   |   |   |   | • |
| 8 - Written Assessment - 30% |                   |   |   |   |   | • | • |

## Alignment of Graduate Attributes to Learning Outcomes

| Graduate Attributes                                 | Learning Outcomes |   |   |   |   |   |   |
|---|-------------------|---|---|---|---|---|---|
|   | 1                 | 2 | 3 | 4 | 5 | 6 | 7 |
| 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 |



## Textbooks and Resources

### Textbooks

AVAT12004

#### Prescribed

##### **Aircraft Operation Performance and Planning (ATB42-03)**

(2009 or newer)

Authors: Aviation Theory Centre

Aviation Theory Centre

Brisbane , Qld , Australia

ISBN: 9781875537679

Binding: Paperback

AVAT12004

#### Prescribed

##### **Human Factors for CASA PPL/CPL Day VFR Syllabus (ATB42-06)**

(2009 or newer)

Authors: Aviation Theory Centre

Aviation Theory Centre

Brisbane , Qld , Australia

ISBN: 9781875537778

Binding: Paperback

#### Additional Textbook Information

Thank you for choosing our aviation program. If you have any questions please contact me. Ron Bishop

[View textbooks at the CQUniversity Bookshop](#)

### 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

**Ron Bishop** Unit Coordinator

[r.bishop@cqu.edu.au](mailto:r.bishop@cqu.edu.au)

## Schedule

### Week 1 - 06 Mar 2017

| Module/Topic         | Chapter | Events and Submissions/Topic |
|----------------------|---------|------------------------------|
| Aerodromes and ALA's | AOPP 1  |                              |

### Week 2 - 13 Mar 2017

| Module/Topic                  | Chapter | Events and Submissions/Topic |
|-------------------------------|---------|------------------------------|
| Aircraft Take-Off Performance | AOPP 2  |                              |

| <b>Week 3 - 20 Mar 2017</b>                         |                |   |
|---|----------------|---|
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Aircraft Landing Performance                        | AOPP 2         |   |
| <b>Week 4 - 27 Mar 2017</b>                         |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Take-Off Climb Performance                          | AOPP 3         |   |
| <b>Week 5 - 03 Apr 2017</b>                         |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Climb Performance Angle, Rate and Cruise            | AOPP 3         | <b>Online Quiz 1</b> Due: Week 5 Monday (3 Apr 2017) 9:00 am AEST   |
| <b>Vacation Week - 10 Apr 2017</b>                  |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
|   |                |   |
| <b>Week 6 - 17 Apr 2017</b>                         |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Flight Planning                                     | AOPP 4         | <b>Online Quiz 2</b> Due: Week 6 Monday (17 Apr 2017) 9:00 am AEST  |
| <b>Week 7 - 24 Apr 2017</b>                         |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Flight Plan submission & Operational Considerations | AOPP 4 & 5     | <b>Online Quiz 3</b> Due: Week 7 Monday (24 Apr 2017) 9:00 am AEST  |
| <b>Week 8 - 01 May 2017</b>                         |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Aircraft Loading Alpha & Bravo Loading Systems      | AOPP 6         | <b>Online Quiz 4</b> Due: Week 8 Monday (1 May 2017) 9:00 am AEST<br><b>Written Assessment</b> Due: Week 8 Friday (5 May 2017) 9:00 am AEST |
| <b>Week 9 - 08 May 2017</b>                         |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Aircraft Loading Charlie & Echo                     | AOPP 6 & 7     | <b>Online Quiz 5</b> Due: Week 9 Monday (8 May 2017) 9:00 am AEST   |
| <b>Week 10 - 15 May 2017</b>                        |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Human Performance Limitations & Recognition         | HPL 1 to 3     | <b>Online Quiz 6</b> Due: Week 10 Monday (15 May 2017) 9:00 am AEST   |
| <b>Week 11 - 22 May 2017</b>                        |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Human Performance Limitations & Recognition         | HPL 4 to 6     | <b>Online Quiz 7</b> Due: Week 11 Monday (22 May 2017) 9:00 am AEST   |
| <b>Week 12 - 29 May 2017</b>                        |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
| Human Performance First Aid & Survival              | HPL 9          | <b>Online Quiz 8</b> Due: Week 12 Monday (29 May 2017) 9:00 am AEST   |
| <b>Review/Exam Week - 05 Jun 2017</b>               |                |   |
| <b>Module/Topic</b>                                 | <b>Chapter</b> | <b>Events and Submissions/Topic</b>   |
|   |                | <b>Online Quiz 9</b> Due: Review/Exam Week Monday (5 June 2017) 9:00 am AEST  |

## Assessment Tasks

### 1 Online Quiz 1

**Assessment Type**

Online Quiz(zes)

**Task Description**

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes****Assessment Due Date**

Week 5 Monday (3 Apr 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Learning Outcomes Assessed**

- Determine the safe and legal use for aerodrome or aeroplane landing areas (ALA) for take off and landing of an aircraft

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Ethical practice

### 2 Online Quiz 2

**Assessment Type**

Online Quiz(zes)

**Task Description**



10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes**

**Assessment Due Date**

Week 6 Monday (17 Apr 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Learning Outcomes Assessed**

- Calculate take-off and landing requirements using the Take-Off Performance Chart and Landing Performance Chart in ISA conditions

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Ethical practice

### 3 Online Quiz 3

**Assessment Type**

Online Quiz(zes)

**Task Description**

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes**

**Assessment Due Date**

Week 7 Monday (24 Apr 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Learning Outcomes Assessed**

- Determine weight limits for maximum aeroplane climb performance and calculate power and velocity parameters to achieve minimum legal and safe performance for take off and climb out

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 4 Online Quiz 4

**Assessment Type**

Online Quiz(zes)

**Task Description**

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes****Assessment Due Date**

Week 8 Monday (1 May 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Learning Outcomes Assessed**

- Determine maximum aeroplane climb performance, including calculation power, velocity, best angle of climb, rate of climb and cruise climb

## Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 5 Online Quiz 5

### Assessment Type

Online Quiz(zes)

### Task Description

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

### Number of Quizzes

1

### Frequency of Quizzes

### Assessment Due Date

Week 9 Monday (8 May 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

### Return Date to Students

Results will be available after Quiz closes

### Weighting

7%

### Assessment Criteria

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

### Referencing Style

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

### Submission

Online

### Submission Instructions

Submit through moodle

### Learning Outcomes Assessed

- Evaluate Alpha, Bravo, Charlie and Echo loading systems for maximum fuel load and payload return

## Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 6 Online Quiz 6

### Assessment Type

Online Quiz(zes)

### Task Description

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

### Number of Quizzes

1

**Frequency of Quizzes****Assessment Due Date**

Week 10 Monday (15 May 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Learning Outcomes Assessed**

- Prepare and submit a flight plan

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 7 Online Quiz 7

**Assessment Type**

Online Quiz(zes)

**Task Description**

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes****Assessment Due Date**

Week 11 Monday (22 May 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Learning Outcomes Assessed**

- Evaluate impact of human factors on safety, including other aircrew and passengers and determine appropriate responses

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

## 8 Online Quiz 8

**Assessment Type**

Online Quiz(zes)

**Task Description**

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes****Assessment Due Date**

Week 12 Monday (29 May 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Technology Competence

## 9 Online Quiz 9

**Assessment Type**

Online Quiz(zes)

**Task Description**

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes****Assessment Due Date**

Review/Exam Week Monday (5 June 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most correct answer.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Submit through moodle

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 10 Online Quiz 10

**Assessment Type**

Online Quiz(zes)

**Task Description**

10 Question online quiz with questions from chapters covered in both texts (if applicable) and weekly power point slides. Quiz is modelled on Civil Aviation Safety Authority (CASA) exams for the Commercial Pilots License. 30 minutes is given for each quiz.

**Number of Quizzes**

1

**Frequency of Quizzes****Assessment Due Date**

Exam Week Monday (12 June 2017) 9:00 am AEST

Quiz will close at the exact time listed above. 30 Minutes are given for each quiz.

**Return Date to Students**

Results will be available after Quiz closes

**Weighting**

7%

**Assessment Criteria**

Multiple choice questions covering text reading assignments and power point slides. Students must select the most

correct answer.

### Referencing Style

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

### Submission

Online

### Submission Instructions

Submit through moodle

### Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 11 Written Assessment

### Assessment Type

Written Assessment

### Task Description

Develop a flight plan within a team of no more than 4 students create a flight plan that includes Climb, Cruise, Descent, and Landing data for a Cessna 172. Use charts in the text to compute accurate data. Organize and plan a survival plan for the flight.

Group Work

The route will be from Bundaberg to Coffs Harbor and return to Bundaberg. Use Cessna 172N performance specifications with a planned altitude between 3-5000ft. Wind is 140 @ 8 knots throughout the entire day. Temperature is 20 C at Bundaberg and 15 C at Coffs Harbor. 1 pilot and 1 passenger on board without baggage. Use text and online resources for Cessna 172N specifications.

Evaluate, criticise, assess, and summarise the group's efforts and each individual's performance during the flight plan assignment. Determine the team's effective areas and areas that need improvement. Estimate overall effectiveness and each individual contribution to the overall project.

### Assessment Due Date

Week 8 Friday (5 May 2017) 9:00 am AEST

Must be submitted on Moodle before the above date/time

### Return Date to Students

Week 12 Friday (2 June 2017)

### Weighting

30%

### Assessment Criteria

Flight plan will be graded on a pass fail basis based on your ability to flight plan using information online for Cessna 172N aircraft. Minimum standard to pass will be a successful heading within 3 degrees for inbound and outbound routes of flight. Estimated Time of arrival for Coffs Harbor and back in to Bundaberg will be within 3 minutes. True Airspeed (TAS) within 5 knots. Groundspeed (GS) within 5 knots.

Written team Assessment Criteria:

Written Team Assessment Criteria:

Demonstrates conceptual/theoretical knowledge and understanding

Pass

Good demonstration of assessing teamwork, interpersonal communication, and giving corrective feedback in professional contexts

Demonstrates the ability to assess what works and what doesn't in a team environment

Demonstrates application of sensitivity towards actions and behaviours in assessing a group activity

## Fail

Limited or no demonstration of assessing teamwork, interpersonal communication, and giving corrective feedback in professional contexts

Limited or no ability to assess what works and what doesn't in a team environment

Limited or no sensitivity towards actions and behaviours in assessing a group activity

## **Referencing Style**

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

## **Submission**

Online

## **Learning Outcomes Assessed**

- Prepare and submit a flight plan
- Evaluate impact of human factors on safety, including other aircrew and passengers and determine appropriate responses

## **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- 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

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