

Profile information current as at 15/05/2024 10:25 pm

All details in this unit profile for AVAT12003 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 aircraft general knowledge theory and aerodynamics theory required by commercial pilot students wishing to undertake the CASA CPL examination. Topics covered include the reciprocating engine, turbo and supercharging, propeller systems, hydraulics, electrical and ignition, fuel and carburation, and flight Instrumentation, and the aerofoil, lift and drag, Bernoullis Theorem, aerodynamic stalls, wing loading, manoeuvres, stability and control; takeoff and landing.

## **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 <u>Assessment Policy and Procedure (Higher Education Coursework)</u>.

# Offerings For Term 2 - 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 <u>University's Grades and Results Policy</u> 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**

Rons style of teaching made some of the dry stuff easy to learn.

### Recommendation

Keep improving teaching style and techniques to make the dry subjects more interesting and easier to learn. Add as much humour as possible

## Feedback from Have Your Say

### Feedback

Presentation on the Power Points complemented text books.

## Recommendation

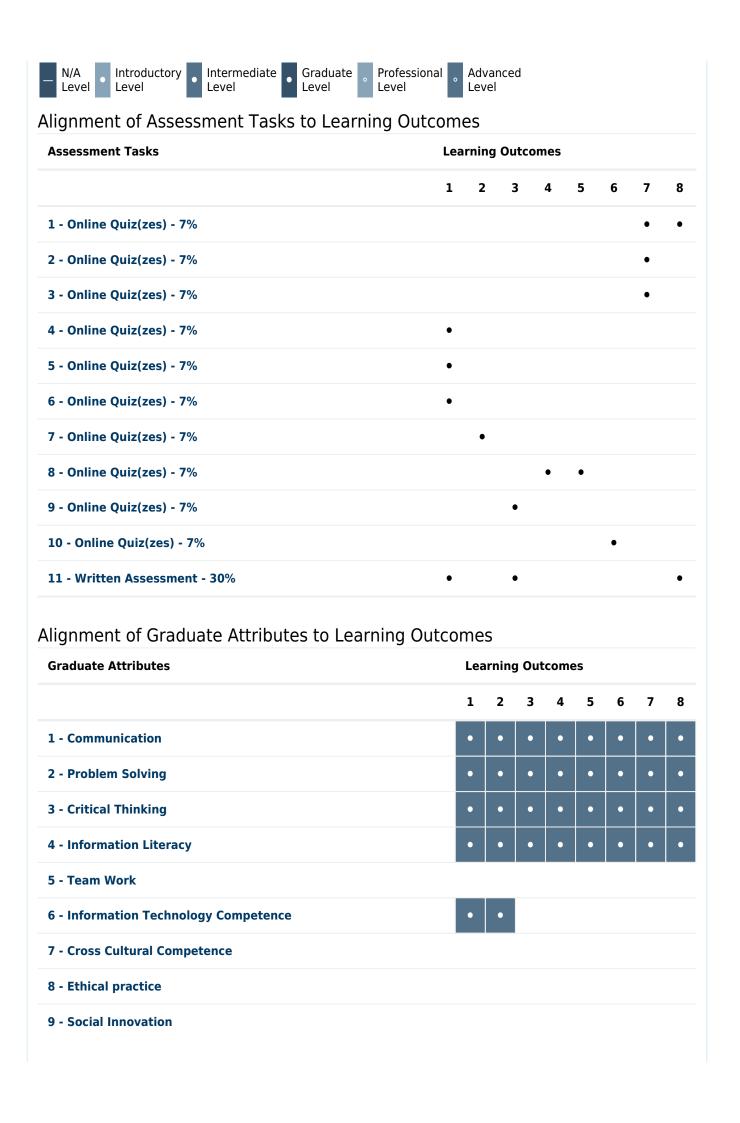
Keep improving the Power Points to enhance the textbooks.

# **Unit Learning Outcomes**

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

- 1. Categorise and explain the mechanics of aircraft power plants and systems
- 2. Analyse the workings of propellers including constant speed units
- 3. Discuss and classify the workings of aircraft hydraulic and electrical systems for normal and emergency operations
- 4. Explain aircraft fuel systems, fuel, and fuelling procedures and their operation. Choose the operation for normal and emergency situations.
- 5. Distinguish components of aircraft instruments systems
- 6. Determine loss of instruments from gage diagram
- 7. Assess the aerodynamics of components of aircraft, particularly during take-off and landing
- 8. Prepare take off and landing data and decide if take off or landing is safe in given conditions

# Alignment of Learning Outcomes, Assessment and Graduate Attributes



Graduate Attributes		Learning Outcomes								
			1	2	3	4	5	6	7	8
10 - Aboriginal and Torres Strait Islander Cultures										
Alignment of Assessment Tasks to Graduate	Attri	but	es							
Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
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 - Online Quiz(zes) - 7%	•	•	•	•						
9 - Online Quiz(zes) - 7%	•	•	•	•						
10 - Online Quiz(zes) - 7%	•	•	•	•						
11 - Written Assessment - 30%	•	•	•	•	•	•	•	•		

## Textbooks and Resources

## **Textbooks**

AVAT12003

### **Prescribed**

### Aerodynamics for the CASA PPL/CPL Day VFR Syllabus

(2007)

Authors: Robson, David and Williams, Jim

**Aviation Theory Centre** 

Cheltenham, Victoria, Australia

ISBN: 187553783X Binding: Paperback AVAT12003

### **Prescribed**

## Aircraft General Knowledge for the CASA PPL/CPL Day VFR Syllabus

(2007)

Authors: Robinson, David; Baumanis, Andrew

**Aviation Theory Centre** 

Cheltenham , Victoria , Australia

ISBN: 1875537821 Binding: Paperback

## 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: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

# **Teaching Contacts**

Ron Bishop Unit Coordinator

r.bishop@cqu.edu.au

# Schedule

Week 1 - 10 Jul 2017		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Dynamics and Aerodynamics	AERO 1 & 2	
Week 2 - 17 Jul 2017		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Inceptors and Effectors	AERO 3	Quizzes start this week and will occur every week for the remainder of the unit. Check Moodle for when the quiz is due.

Module/Topic Chapter Events and Submissions/Topic Stability and Control AERO 4 Online Quiz(zes) Due: Week 3 Monday (24 July 2017) 9:00 am AEST Week 4 - 31 Jul 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 4 Amonday (31 July 2017) 9:00 am AEST Week 5 - 07 Aug 2017  Week 5 - 07 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 4 Monday (31 July 2017) 9:00 am AEST Week 5 - 07 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 5 Monday (7 Aug 2017) 9:00 am AEST Week 1 - 14 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Events and Submissions/Topic Online Quiz(zes) Due: Week 5 - 21 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Week 6 - 21 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 6 - 21 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Monday (21 Aug 2017) 9:00 am AEST Week 7 - 28 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 7 Monday (22 Aug 2017) 9:00 am AEST Week 9 - 04 Sep 2017  Week 8 - 04 Sep 2017  Week 9 - 04 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 7 Monday (28 Aug 2017) 9:00 am AEST Week 9 - 11 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 8 Monday (4 Sept 2017) 9:00 am AEST Week 1 - 18 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 1 Monday (15 Sept 2017) 9:00 am AEST Week 1 - 18 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 1 Monday (15 Sept 2017) 9:00 am AEST Week 1 - 25 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 1 Monday (25 Sept 2017) 9:00 am AEST Week 1 - 25 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 1 Monday (25 Sept 2017) 9:00 am AEST Week 1 - 25 Sep 2017 9:00 am AEST Week 1 - 25 Sep 2017 9:00 am AEST Week 1 - 25 Sep 20	Week 3 - 24 Jul 2017		
Week 4 - 31 Jul 2017  Week 4 - 31 Jul 2017  Module/Topic Chapter Events and Submissions/Topic Aerodynamic Performance: Turns, climbs, Wing Loading, Load Factor  Meek 5 - 07 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 5 Monday (7 Aug 2017) 9:00 am AEST  Week 5 - 07 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 5 Monday (7 Aug 2017) 9:00 am AEST  Vacation Week - 14 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 5 Monday (7 Aug 2017) 9:00 am AEST  Week 6 - 21 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Meek 6 - 21 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Week 6 - 21 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Meek 7 - 28 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Meek 7 - 28 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Meek 8 - 04 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Meek 8 - 04 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 7 Monday (28 Aug 2017) 9:00 am AEST  Week 9 - 11 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 8 Monday (4 Sept 2017) 9:00 am AEST  Week 10 - 18 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 9 Monday (11 Sept 2017) 9:00 am AEST  Week 11 - 25 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 10 Monday (25 Sept 2017) 9:00 am AEST  Week 11 - 25 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST  Week 12 - 02 Oct 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST Written/Bractical Assignment  Week 12 - 02 Oct 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST Written/Bractical Assignment  Week 12 - 02 Oct	Module/Topic	Chapter	Events and Submissions/Topic
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Module/Topic Chapter Events and Submissions/Topic Reciprocating engine AGK 1 & 2 Online Quiz(zes) Due: Week 6 Monday (21 Aug 2017) 9:00 am AEST Week 7 - 28 Aug 2017  Module/Topic Chapter Events and Submissions/Topic Ignition, Carburetion Systems, Lubrication and Supercharging AGK 3, 4, 5 & 6 Online Quiz(zes) Due: Week 7 Monday (28 Aug 2017) 9:00 am AEST Week 8 - 04 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 8 Monday (4 Sept 2017) 9:00 am AEST Week 9 - 11 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 8 Monday (11 Sept 2017) 9:00 am AEST Week 10 - 18 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 9 Monday (11 Sept 2017) 9:00 am AEST Week 11 - 25 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 11 Monday (18 Sept 2017) 9:00 am AEST Week 11 - 25 Sep 2017  Module/Topic Chapter Events and Submissions/Topic Online Quiz(zes) Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST Written Assessment Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST Written Assessment Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST Written Assessment Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 11 Monday (20 Sept 2017) 9:00 am AEST Written ASSESSMENT Due: Week 12 Monday (20 Cct 2017) 9:00 am AEST Written ASSESSMENT Due: Week 12 Monday (20 Cct 2017) 9:00 am AEST Written ASSESSMENT Due: Week 12 Monday (20 Cct 2017) 9:00 am AEST Written ASSESSMENT Due: Week 12 Monday (20 Cct 2017) 9:00 am AEST Writt	Module/Topic	Chapter	Events and Submissions/Topic
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Week 7 - 28 Aug 2017       AGK 1 & 2       Monday (21 Aug 2017) 9:00 am AEST         Week 7 - 28 Aug 2017       Chapter       Events and Submissions/Topic         Ignition, Carburetion Systems, Lubrication and Supercharging       AGK 3, 4, 5 & 6       Online Quiz(zes) Due: Week 7 Monday (28 Aug 2017) 9:00 am AEST         Week 8 - 04 Sep 2017       Chapter       Events and Submissions/Topic         Propeller systems       AGK 7       Online Quiz(zes) Due: Week 8 Monday (4 Sept 2017) 9:00 am AEST         Week 9 - 11 Sep 2017       Module/Topic       Chapter       Events and Submissions/Topic         Fuel and Electrical Systems       AGK 8 & 9       Online Quiz(zes) Due: Week 9 Monday (11 Sept 2017) 9:00 am AEST         Week 10 - 18 Sep 2017       Chapter       Events and Submissions/Topic         Hydraulic aircraft systems       AGK 10, 11 & 12       Online Quiz(zes) Due: Week 10 Monday (18 Sept 2017) 9:00 am AEST         Week 11 - 25 Sep 2017       Module/Topic       Chapter       Events and Submissions/Topic         Aircraft flight instruments       AGK 13, 14 & 15       Online Quiz(zes) Due: Week 11 Friday (29 Sept 2017) 9:00 am AEST         Week 12 - 02 Oct 2017       Module/Topic       Chapter       Events and Submissions/Topic         Automatic flight       AGK 16       Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST         Week 12 - Ox Ox 2017       Monday (2 Oct	Module/Topic	Chapter	Events and Submissions/Topic
Module/Topic   Chapter   Events and Submissions/Topic	Reciprocating engine	AGK 1 & 2	
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Lubrication and Supercharging       AGK 3, 4, 3 & 6       Monday (28 Aug 2017) 9:00 am AEST         Week 8 - 04 Sep 2017       Chapter       Events and Submissions/Topic         Propeller systems       AGK 7       Online Quiz(zes) Due: Week 8 Monday (4 Sept 2017) 9:00 am AEST         Week 9 - 11 Sep 2017       Week 10 Sept 2017       Events and Submissions/Topic         Fuel and Electrical Systems       AGK 8 & 9       Online Quiz(zes) Due: Week 9 Monday (11 Sept 2017) 9:00 am AEST         Week 10 - 18 Sep 2017       Chapter       Events and Submissions/Topic         Hydraulic aircraft systems       AGK 10, 11 & 12       Online Quiz(zes) Due: Week 10 Monday (18 Sept 2017) 9:00 am AEST         Week 11 - 25 Sep 2017       Chapter       Events and Submissions/Topic         Aircraft flight instruments       AGK 13, 14 & 15       Online Quiz(zes) Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST         Week 12 - 02 Oct 2017       Module/Topic       Chapter       Events and Submissions/Topic         AGK 16       Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST       Review/Exam Week - 09 Oct 2017         Module/Topic       Chapter       Events and Submissions/Topic         Weiting/Practical Assignment       See Moodle for Written Assessment	Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
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Fuel and Electrical Systems  AGK 8 & 9  Online Quiz(zes) Due: Week 9 Monday (11 Sept 2017) 9:00 am AEST  Week 10 - 18 Sep 2017  Module/Topic  Chapter  Events and Submissions/Topic  Hydraulic aircraft systems  AGK 10, 11 & 12  Online Quiz(zes) Due: Week 10 Monday (18 Sept 2017) 9:00 am AEST  Week 11 - 25 Sep 2017  Module/Topic  Chapter  Events and Submissions/Topic  Online Quiz(zes) Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST  Week 12 - 02 Oct 2017  Module/Topic  AGK 13, 14 & 15  Week 12 - 02 Oct 2017  Module/Topic  Automatic flight  AGK 16  Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST  Review/Exam Week - 09 Oct 2017  Module/Topic  Chapter  Events and Submissions/Topic  Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST  Review/Exam Week - 09 Oct 2017  Module/Topic  Chapter  Events and Submissions/Topic  See Moodle for Written Assessment	Week 9 - 11 Sep 2017		
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Module/Topic       Chapter       Events and Submissions/Topic         Hydraulic aircraft systems       AGK 10, 11 & 12       Online Quiz(zes) Due: Week 10 Monday (18 Sept 2017) 9:00 am AEST         Week 11 - 25 Sep 2017       Module/Topic       Chapter       Events and Submissions/Topic         Aircraft flight instruments       AGK 13, 14 & 15       Events and Submissions/Topic Written Assessment Due: Week 11 Friday (29 Sept 2017) 9:00 am AEST         Week 12 - 02 Oct 2017       Module/Topic       Chapter       Events and Submissions/Topic         Automatic flight       AGK 16       Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST         Review/Exam Week - 09 Oct 2017       Module/Topic       Chapter       Events and Submissions/Topic         Writing/Practical Assignment       See Moodle for Written Assessment	Fuel and Electrical Systems	AGK 8 & 9	
Hydraulic aircraft systems  AGK 10, 11 & 12  Online Quiz(zes) Due: Week 10 Monday (18 Sept 2017) 9:00 am AEST  Week 11 - 25 Sep 2017  Module/Topic  Chapter  Events and Submissions/Topic Online Quiz(zes) Due: Week 11 Monday (25 Sept 2017) 9:00 am AEST Written Assessment Due: Week 11 Friday (29 Sept 2017) 9:00 am AEST Written Assessment Due: Week 11 Friday (29 Sept 2017) 9:00 am AEST  Week 12 - 02 Oct 2017  Module/Topic  Automatic flight  AGK 16  Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST  Review/Exam Week - 09 Oct 2017  Module/Topic  Chapter  Events and Submissions/Topic  See Moodle for Written Assessment	Week 10 - 18 Sep 2017		
Week 11 - 25 Sep 2017  Module/Topic Chapter Events and Submissions/Topic  AGK 13, 14 & 15 Written Assessment  Module/Topic Chapter Events and Submissions/Topic  Online Quiz(zes) Due: Week 11  Monday (25 Sept 2017) 9:00 am AEST  Written Assessment Due: Week 11  Friday (29 Sept 2017) 9:00 am AEST  Week 12 - 02 Oct 2017  Module/Topic Chapter Events and Submissions/Topic  Automatic flight AGK 16 Online Quiz(zes) Due: Week 12  Monday (2 Oct 2017) 9:00 am AEST  Review/Exam Week - 09 Oct 2017  Module/Topic Chapter Events and Submissions/Topic  See Moodle for Written Assessment	Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
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Aircraft flight instruments  AGK 13, 14 & 15  Monday (25 Sept 2017) 9:00 am AEST Written Assessment Due: Week 11 Friday (29 Sept 2017) 9:00 am AEST  Week 12 - 02 Oct 2017  Module/Topic  Automatic flight  AGK 16  Chapter  AGK 16  AGK 16  Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST  Review/Exam Week - 09 Oct 2017  Module/Topic  Chapter  Events and Submissions/Topic  See Moodle for Written Assessment	Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Module/Topic       Chapter       Events and Submissions/Topic         Automatic flight       AGK 16       Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST         Review/Exam Week - 09 Oct 2017       Module/Topic       Events and Submissions/Topic         Writing/Practical Assignment       See Moodle for Written Assessment	Aircraft flight instruments	AGK 13, 14 & 15	Monday (25 Sept 2017) 9:00 am AEST Written Assessment Due: Week 11
Module/Topic Chapter Events and Submissions/Topic  Automatic flight AGK 16 Online Quiz(zes) Due: Week 12 Monday (2 Oct 2017) 9:00 am AEST  Review/Exam Week - 09 Oct 2017  Module/Topic Chapter Events and Submissions/Topic  Writing/Practical Assignment See Moodle for Written Assessment	Week 12 - 02 Oct 2017		
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Module/Topic Chapter Events and Submissions/Topic  Writing/Practical Assignment See Moodle for Written Assessment	Review/Exam Week - 09 Oct 2017		
Writing/Practical Assignment		Chapter	Events and Submissions/Topic
	Writing/Practical Assignment		

Chapter

**Events and Submissions/Topic** 

## **Assessment Tasks**

## 1 Online Quiz(zes)

## **Assessment Type**

Online Quiz(zes)

## **Task Description**

10 Question Quiz

### **Number of Quizzes**

1

### **Frequency of Quizzes**

#### **Assessment Due Date**

Week 3 Monday (24 July 2017) 9:00 am AEST

### **Return Date to Students**

Automatic through Moodle

### Weighting

7%

### **Assessment Criteria**

No Assessment Criteria

### **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

## **Learning Outcomes Assessed**

- · Assess the aerodynamics of components of aircraft, particularly during take-off and landing
- Prepare take off and landing data and decide if take off or landing is safe in given conditions

### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 2 Online Quiz(zes)

### **Assessment Type**

Online Quiz(zes)

## **Task Description**

Quiz

### **Number of Quizzes**

1

## **Frequency of Quizzes**

Weekly

## **Assessment Due Date**

Week 4 Monday (31 July 2017) 9:00 am AEST

### **Return Date to Students**

Return on completion of Quiz

### Weighting

7%

#### **Assessment Criteria**

No Assessment Criteria

## **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

### **Submission Instructions**

Submit through moodle

### **Learning Outcomes Assessed**

· Assess the aerodynamics of components of aircraft, particularly during take-off and landing

## **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 3 Online Quiz(zes)

## **Assessment Type**

Online Quiz(zes)

### **Task Description**

No Assessment Task Description

### **Number of Quizzes**

1

## **Frequency of Quizzes**

### **Assessment Due Date**

Week 5 Monday (7 Aug 2017) 9:00 am AEST

### **Return Date to Students**

Return on completion of Quiz

## Weighting

7%

## **Assessment Criteria**

No Assessment Criteria

## **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

### **Submission Instructions**

Submit through moodle

## **Learning Outcomes Assessed**

· Assess the aerodynamics of components of aircraft, particularly during take-off and landing

## **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 4 Online Quiz(zes)

### **Assessment Type**

Online Quiz(zes)

#### **Task Description**

No Assessment Task Description

### **Number of Quizzes**

1

### **Frequency of Quizzes**

### **Assessment Due Date**

Week 6 Monday (21 Aug 2017) 9:00 am AEST

#### **Return Date to Students**

Return on completion of Quiz

## Weighting

7%

#### **Assessment Criteria**

No Assessment Criteria

### **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

## **Submission Instructions**

Submit through moodle

## **Learning Outcomes Assessed**

• Categorise and explain the mechanics of aircraft power plants and systems

### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 5 Online Quiz(zes)

## **Assessment Type**

Online Quiz(zes)

### **Task Description**

No Assessment Task Description

### **Number of Quizzes**

1

## **Frequency of Quizzes**

### **Assessment Due Date**

Week 7 Monday (28 Aug 2017) 9:00 am AEST

## **Return Date to Students**

Return on completion of Quiz

### Weighting

7%

## **Assessment Criteria**

No Assessment Criteria

## **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

#### **Submission Instructions**

Submit through moodle

### **Learning Outcomes Assessed**

• Categorise and explain the mechanics of aircraft power plants and systems

### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 6 Online Quiz(zes)

### **Assessment Type**

Online Quiz(zes)

### **Task Description**

No Assessment Task Description

### **Number of Quizzes**

1

### **Frequency of Quizzes**

### **Assessment Due Date**

Week 8 Monday (4 Sept 2017) 9:00 am AEST

#### **Return Date to Students**

Return on completion of Quiz

### Weighting

7%

#### **Assessment Criteria**

No Assessment Criteria

### **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

### **Submission Instructions**

Submit through moodle

### **Learning Outcomes Assessed**

• Categorise and explain the mechanics of aircraft power plants and systems

## **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 7 Online Quiz(zes)

### **Assessment Type**

Online Quiz(zes)

## **Task Description**

No Assessment Task Description

## **Number of Quizzes**

1

### **Frequency of Quizzes**

### **Assessment Due Date**

Week 9 Monday (11 Sept 2017) 9:00 am AEST

#### **Return Date to Students**

Return on completion of Quiz

### Weighting

7%

#### **Assessment Criteria**

No Assessment Criteria

## **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online

### **Submission Instructions**

Submit through moodle

### **Learning Outcomes Assessed**

• Analyse the workings of propellers including constant speed units

### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 8 Online Quiz(zes)

### **Assessment Type**

Online Quiz(zes)

### **Task Description**

No Assessment Task Description

### **Number of Quizzes**

1

### **Frequency of Quizzes**

### **Assessment Due Date**

Week 10 Monday (18 Sept 2017) 9:00 am AEST

## **Return Date to Students**

Return on completion of Quiz

## Weighting

7%

## **Assessment Criteria**

No Assessment Criteria

### **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

### **Submission Instructions**

Submit through moodle

### **Learning Outcomes Assessed**

- Explain aircraft fuel systems, fuel, and fuelling procedures and their operation. Choose the operation for normal and emergency situations.
- Distinguish components of aircraft instruments systems

### **Graduate Attributes**

- Communication
- Problem Solving

- Critical Thinking
- Information Literacy

## 9 Online Quiz(zes)

## **Assessment Type**

Online Quiz(zes)

### **Task Description**

No Assessment Task Description

### **Number of Quizzes**

1

### **Frequency of Quizzes**

### **Assessment Due Date**

Week 11 Monday (25 Sept 2017) 9:00 am AEST

### **Return Date to Students**

Return on completion of Quiz

## Weighting

7%

### **Assessment Criteria**

No Assessment Criteria

## **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

### **Submission Instructions**

Submit through moodle

### **Learning Outcomes Assessed**

• Discuss and classify the workings of aircraft hydraulic and electrical systems for normal and emergency operations

## **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

# 10 Online Quiz(zes)

### **Assessment Type**

Online Quiz(zes)

## **Task Description**

No Assessment Task Description

## **Number of Quizzes**

1

## **Frequency of Quizzes**

### **Assessment Due Date**

Week 12 Monday (2 Oct 2017) 9:00 am AEST

## **Return Date to Students**

Return on completion of Quiz

## Weighting

7%

## **Assessment Criteria**

No Assessment Criteria

## **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

#### **Submission Instructions**

Submit through moodle

## **Learning Outcomes Assessed**

• Determine loss of instruments from gage diagram

#### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 11 Written Assessment

#### **Assessment Type**

Written Assessment

#### **Task Description**

This assignment will broaden your understanding of alternative fuel or propulsion systems. You will need to scan relevant literature (textbooks, websites, etc) to explain and discuss alternative fuel or propulsion systems for General Aviation. The main fuel source currently used in General Aviation is AVGAS. Experts agree that AVGAS availability is declining. Parts of the world don't have access to AVGAS. This is a concern to aviation as a large portion of General Aviation (GA) relies on AVGAS to operate. Electric power, Diesel/Kerosene (AVTUR), and many other fuels and propulsion systems are being explored.

Your paper should briefly cover the following areas:

Replacing AVGAS with alternative fuel or propulsion systems in General Aviation.

The paper will draw on sourced literature and other sources. (Hint: Use the Library's resource search and online journal databases, (eg., Ebscohost, books, videos, etc.)

Format

The paper is to be written in essay format, with an Introduction, Body, and Conclusion, and will be properly referenced using the Harvard Style. An abstract is required. Do not provide a table of contents. Pages should be numbered in Arabic numerals at the top right corner, except for the title page (no page number) and the abstract should have Roman numerals starting at ii. 1200 words maximum.

#### **Assessment Due Date**

Week 11 Friday (29 Sept 2017) 9:00 am AEST

### **Return Date to Students**

Within 2 weeks after due date

### Weighting

30%

### **Assessment Criteria**

Demonstrates knowledge and understanding of the AVGAS problem and development of new fuels and propulsion systems to solve this problem. Extensive knowledge and understanding of the historical development of aviation as demonstrated by a well informed and critical discussion of the conditions and technological advances that will solve the AVGAS problem in General Aviation.

HD: Excellent and appropriate use of examples and good grasp of how technology can change GA from using primarily AVGAS to Alternative Fuels or propulsion systems to ensure the fuel source is sustainable.

D: Considerable knowledge and understanding of the fuel issues of aviation as demonstrated by a well informed and critical discussion of the conditions and technological advances which will lead to a sustainable fuel. Very good use of examples.

C: Appropriate use of examples of possible fuels and propulsion systems that can ensure General Aviaiton is Sustainable. Decent use of examples.

P: Basic knowledge and understanding of the alternative fuel development of aviation as demonstrated by a well informed and critical discussion of the conditions and technological advances that will lead to a sustainable fuel source.

P: Some use of examples and milestones. Little knowledge and understanding of the AVGAS problem of General Aviation as demonstrated by a well informed and critical discussion of the conditions and technological advances which lead to the development of a sustainable fuel for General Aviation.

F: No use of examples. No grasp of the subject on the AVGAS problem. No or limited references. Very poor referencing.

### **Referencing Style**

• Harvard (author-date)

### **Submission**

Online

### **Submission Instructions**

Submit through moodle/turnitin

## **Learning Outcomes Assessed**

- Categorise and explain the mechanics of aircraft power plants and systems
- Discuss and classify the workings of aircraft hydraulic and electrical systems for normal and emergency operations
- Prepare take off and landing data and decide if take off or landing is safe in given conditions

## **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 <u>Academic Learning Centre (ALC)</u> 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