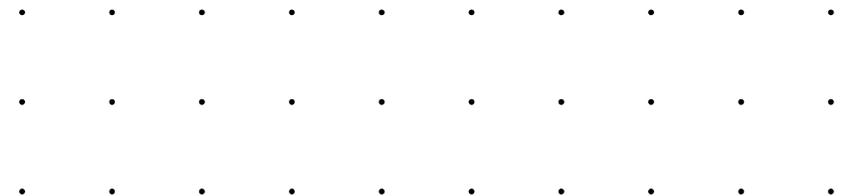


Aviation at Swinburne

Chart your own course to take your career sky-high

Swinburne offers courses/majors in:

- **Professional Piloting**
 - Bachelor of Aviation/Graduate Certificate of Aviation (Piloting) - for domestic students only
 - Bachelor of Aviation and Piloting – for international students only
- **Aviation Operations**
 - Major available in Bachelor of Aviation Management
 - Minor or elective units available in any Swinburne degree
- **Uncrewed Aircraft Systems**
 - Major available in Bachelor of Aviation Management
 - Co-major available in other Swinburne degrees – e.g., Engineering, Design, Film & TV
 - Minor or elective units available in any Swinburne degree



Bachelor of Aviation

3 Years Full Time – Hawthorn Campus & Moorabbin Airport

→ **The Bachelor of Aviation** / Graduate Certificate of Aviation (Piloting) prepares you for a commercial pilot career with training at CAE Melbourne Flight Training (Moorabbin). You'll work towards licences and ratings including Commercial Pilot, Multi-engine Command Instrument, and either Multi Crew Cooperation and Jet Orientation or Flight Instructor, while also studying CASA theory, human factors, management, and technology.

→ **Available Majors**

Piloting

25

VCE English
(Units 3 and 4)

20

VCE Maths
(Units 3 and 4)

RC

Range of Criteria – please visit website
(aptitude test, medical, security check)



Selection Process and Pilot Aptitude Testing

Academic prerequisites

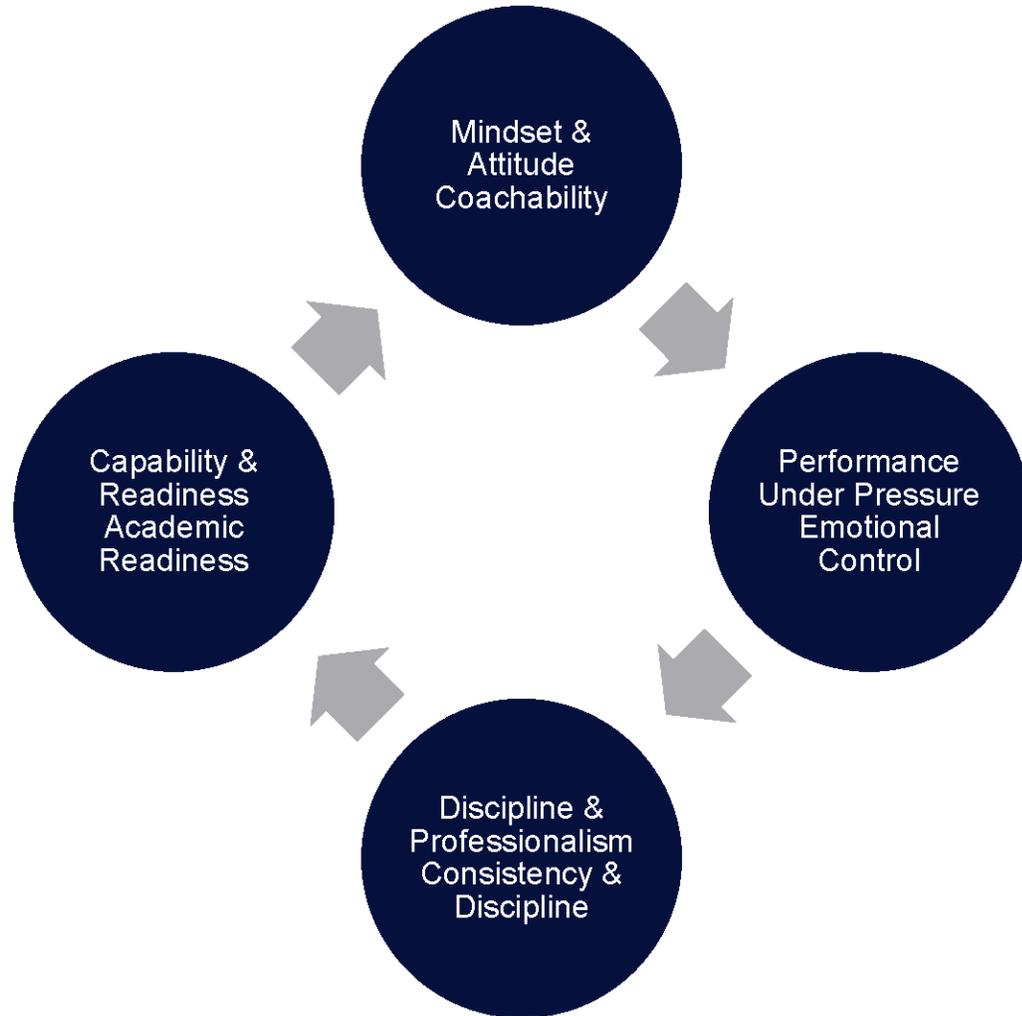
Aptitude testing – Math's, psychomotor skills, situational awareness, and judgment

Interpersonal interview requirements

Personality fit and criteria – Resilience, decision-making, teamwork



What Makes a Student a Strong Candidate for the Piloting Program?



Strong Background Indicators

- Team sport athletes (coachability, resilience, performance mindset)
- STEM learners (systems thinking and logic)
- Cadets/scouts/leadership roles (discipline and responsibility)
- Students with part-time jobs (accountability and maturity)

Airlines and Aviation Training Organisations use these tests to predict success in training and careers.

The assessment evaluates cognitive abilities, psychomotor skills, and personality traits to identify suitable candidates for pilot training and pilot roles worldwide.

The Symbiotic ADAPT assessment



Piloting – medical requirements



Australian Government
Civil Aviation Safety Authority



CASA sets medical requirements for aircraft pilots and air traffic controllers

- **Class 1 medical** – required for Commercial Pilot Licence (Year 2 of Swinburne program), renewed annually
- **Class 2 medical** - required for Private Pilot Licence (Year 1 of Swinburne program), valid 4 years if aged <40 years

Examinations must be undertaken by an approved practitioner (“DAME” or “DAO”)

Relevant conditions include:

- *Vision and eyes*
- *Psychiatric and psychological conditions – e.g., mood disorders, anxiety, phobias, personality disorders, PTSD, schizophrenia, etc.*
- *Neurodevelopmental conditions – e.g., dyslexia, ADHD, autism spectrum disorder*
- *Sleep disorders – especially obstructive sleep apnoea, narcolepsy, excessive daytime sleepiness*
- *Neurological conditions – e.g., epilepsy, Parkinson’s, multiple sclerosis, cerebral palsy, TBI (past concussions), blackouts*
- *Diabetes*
- *Musculoskeletal conditions (acute or chronic)*
- *Hearing*
- *Substance misuse*
- *Cardiovascular, renal, urological, ear/nose/throat and other conditions*



See www.casa.gov.au/licences-and-certificates/aviation-medicals

Piloting – security check



Australian Government
Department of Home Affairs

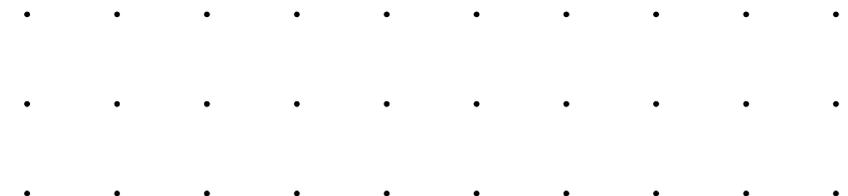


All student pilots are required to undergo an aviation security check and successfully apply for an Aviation Security Identification Card (ASIC).

- *An ASIC is necessary for flight crew operating at security-controlled airports, and grants permission to operate at any airport in Australia.*
- *There are three types (Red, Grey, White) – pilots need a **red ASIC** which allows unescorted access for the airside security zone or secure areas, such as a ramp, tarmac or roof.*
 - *Non-pilots may need Red, Grey, White or no ASIC, depending on the nature of their role*
- *Need to provide residential addresses for past 10 years*
- *Criminal history must not include a relevant Tier 1 or Tier 2 criminal offence, or a conviction and sentence to imprisonment for a Tier 3 offence.*
- *Applications must include evidence of “operational need” – CAE will provide a letter after confirmation of enrolment; i.e., students can only apply after they have been offered a place in our program and accepted the offer*
- *Applications should be submitted at least 6 weeks before the ASIC is required*



See www.auscheck.gov.au/security-card/aviation/asic



Bachelor of Aviation Management

3 Years Full Time – Hawthorn Campus

→ **Launch** your aviation career in Australia or beyond – without being a pilot. Choose to gain the organisational, regulatory, safety, technical and business management skills you need for a career in Aviation Operations. Alternately, develop specialist skills and knowledge in Advanced Air Mobility (AAM), an emerging field focused on drones and other new aircraft types that are transforming the aviation industry.

→ **Available Majors**

Aviation Operations

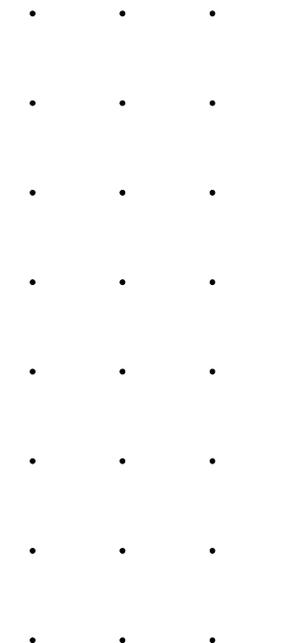
Uncrewed Aircraft Systems

70

25

ATAR Guaranteed Entry Score
for 2026

VCE English
(Units 3 and 4)



Aviation Industry



Aviation Career Opportunities

Airline Operations	Maintenance Management	Air Cargo Services	Airport Operations
Flight Dispatch	Aerospace Technology	Unmanned Aerial Systems	Aviation Marketing
Aviation Finances	Hospitality and Tourism	Pilot	Research and Development



Industry Partners



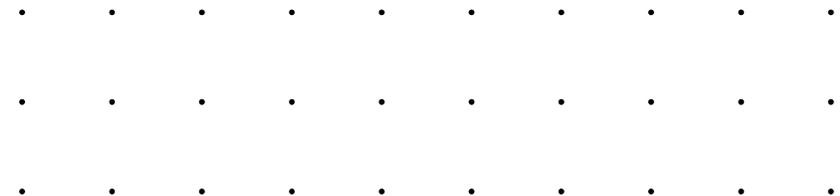
Our courses are delivered in partnership with leading industry training providers:



Other current industry partners across teaching, curriculum design, mentoring and research, include:



Australian Government
Civil Aviation Safety Authority

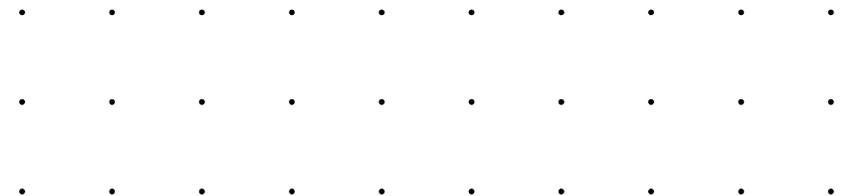


Real Industry Experience

Work-integrated learning projects co-designed with industry: students work with or for aviation industry partners on projects each year – gaining feedback, advice and mentoring from real-world industry professionals

Industry-relevant curriculum: our curriculum is designed in consultation with industry partners, with many units taught by current or former aviation professionals

Qantas Aviation Career Enrichment Program: We've partnered with Qantas to offer a pilot program that accelerates aviation careers with real industry preparation. Students who complete the program and meet minimum direct entry pilot recruitment requirements will be invited to attend a Qantas Group Assessment Centre, subject to operational needs.



Why CAE Melbourne

- Over 55 years of flight training excellence.
- 30 years of proven airline cadet pilot training.
- One of Australia's largest and most respected flight training organisations.
- Personalised learning with a 1:5 instructor-to-student ratio.
- Onsite aircraft maintenance ensuring minimal downtime and maximum flying.
- Graduate with employment opportunities and a fast-track pathway to airlines.
- The only program in Victoria that delivers PPL, CPL, IR-MEA, ATPL, FIR, and MCC — all tailored within one course.



Becoming an airline pilot from Student to Airline Captain

The training you received through our joint program provides all the essential entry-level qualifications required to begin your career with an airline.

Private Pilot Licence (PPL)

- Take family and friends to fly
- Not for profit flight

Commercial Flying Training

- Commercial Pilot Licence (CPL)
- Multi-Engine Instrument Rating (IR-MEA)
- Air Transport Pilot Licence (ATPL) Theory
- Multi-Crew Cooperation (MCC) Training or Flight Instructor Rating (FIR)

Entry Level Employment

(Hour Building for Airlines)

- Flight Instructor
- Charter Pilot
- Aerial Application Pilot
- Scenic Flight Pilot
- Regional Commuter Pilot

Regional Airlines

(QantasLink, Rex Airlines, Sharp Airlines, etc)

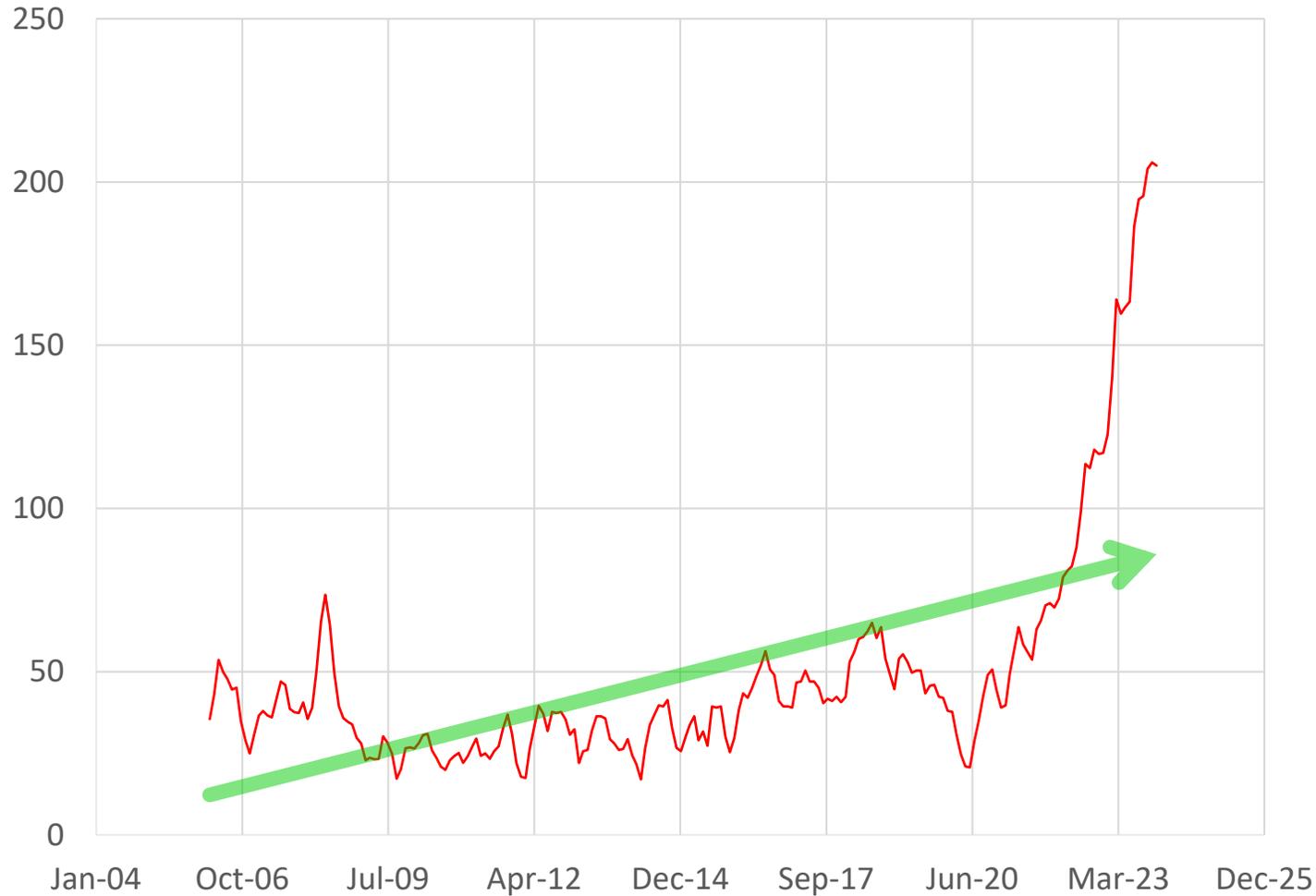
- First Officer
- Captain

Major Airlines

(Qantas, Virgin, Jetstar, Air NZ, etc)

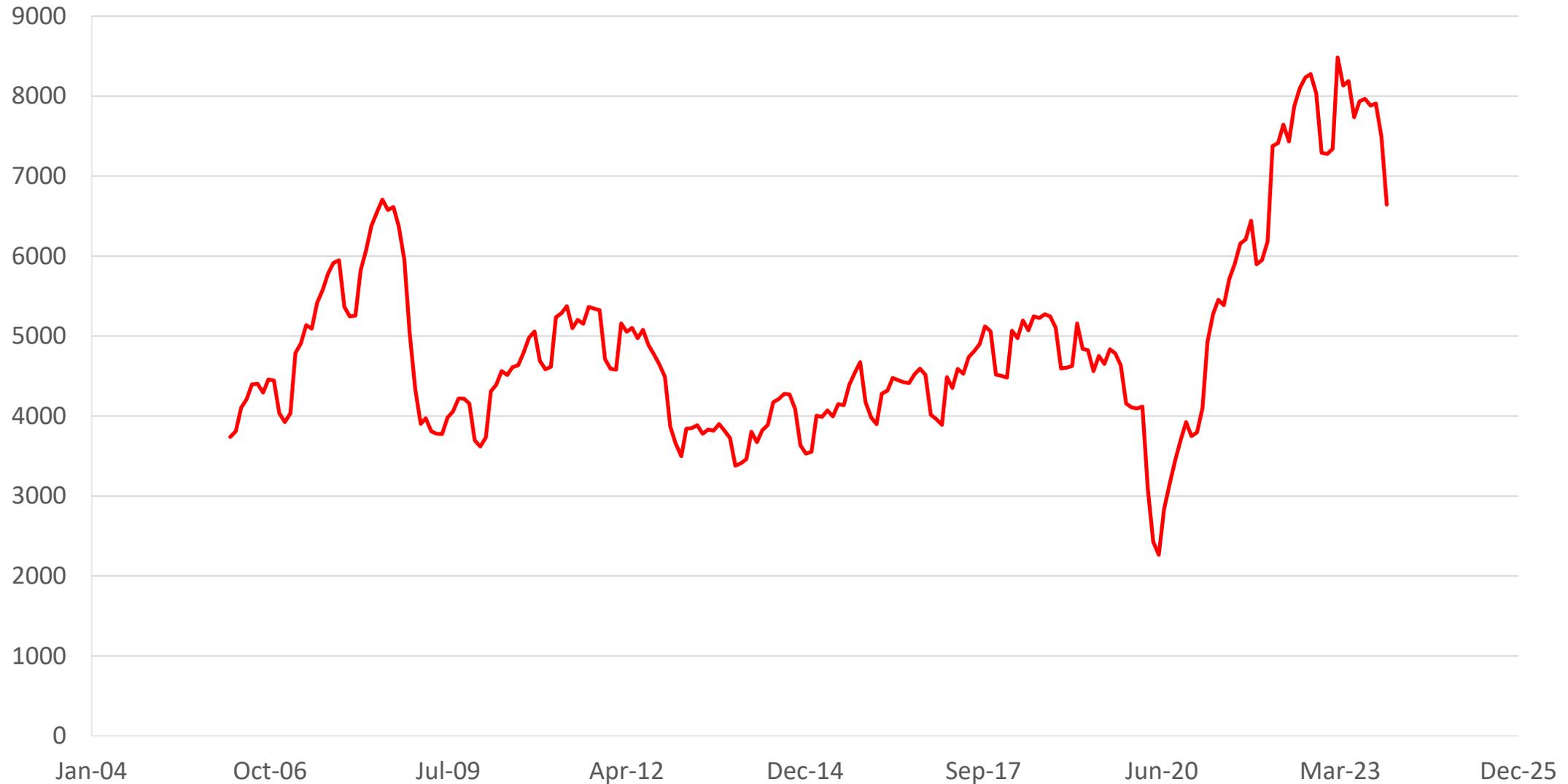
- Second Officer
- First Officer
- Captain
- Training Captain

Air Transport Professionals - Job Vacancies



AIR TRANSPORT PROFESSIONALS fly and navigate aircraft, control and direct air traffic to ensure the safe and efficient operation of aircraft in flight and on the ground, and instruct students in flying aircraft.

Aviation-related Job Vacancies



Source: Australian Government Labour Market Information Portal
<http://lmip.gov.au/default.aspx?LMIP/GainInsights/VacancyReport>
ANZSCO_CODE used 1112, 1324, 1336, 1399, 1494, 2244, 2311, 2326, 2343, 3231, 4516, 4517, 5999



Pathways in Aviation

Swinburne is both a university and a TAFE.

That means we have all levels of study under one roof.

So, you can start where you need to and finish where you want to.

It all works together – seamlessly.

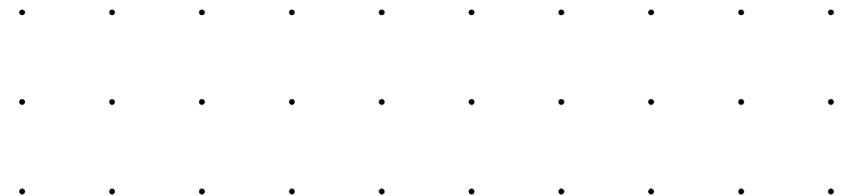
Diploma (UniLink)
1 year

- Provides a seamless connection from Diploma to Bachelor Degree
- ATAR 40 for guaranteed entry (plus 20 in English or 25 in EAL and 20 in any Maths*)
- **Provides 6-8 units of credit**

**Bachelor of Aviation /
Graduate Certificate of
Aviation (Piloting)**

or

**Bachelor of Aviation
Management**



What will I study?

Common Core	Piloting	Aviation Operations	Uncrewed Aircraft Systems	
<ul style="list-style-type: none"> • Global Aviation System • Essential Aviation Analytical Skills • Aviation Safety & Risk Management • Aviation Project: Blue Sky Ideas • Aviation Project: Managing Implementation • Aviation Capstone Project 1 & 2 	<ul style="list-style-type: none"> • Airport and Airline Planning • Airline Crew Planning and Resourcing • Airline Market Analysis and Network Planning • Advanced Aviation Analytics & Research • Future Aviation Technologies 		<ul style="list-style-type: none"> • RePL Theory & Practicum • Intro to UAS • Aircraft Aerodynamics • UAV Operations • Airspace Management • UAV Design & Propulsion • UAV Comms, Navigation & Cybersecurity • UAV Data Analysis 	
	<ul style="list-style-type: none"> • PPL Theory • PPL Practicum • CPL Theory • CPL Practicum • ATPL Theory 	<ul style="list-style-type: none"> • Aircraft Flight Ops • Continuing Airworthiness Management • Ops & Disruption Management 		
	<p>Flying elective:</p> <ul style="list-style-type: none"> • Multi-Crew Cooperation OR • Flight Instructor Rating 	<ul style="list-style-type: none"> • Human Factors in Aviation 		
	+ 6 electives	+ 8 electives	+ 8 electives	



Example Course Structure – Piloting (BA-AV/GC-AVPIL)

	Year One		Year Two		Year Three	
	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
Core, Major and Elective units Delivered by Swinburne University of Technology	AVA10001 The Global Aviation System	AVA10014 Aviation Project - Blue Sky Ideas	AVA20024 Aviation Project – Managing Implementation	AVA20027 Airline Crew Planning and Resourcing	AVA30008 Aviation Capstone – Project Planning	AVA30009 Aviation Capstone - Project Implementation
	AVA10011 Essential Aviation Analytical Skills	AVA10017 Aviation Safety and Risk Management	AVA20028 Airport and Airline Planning: Factors and Outcomes	AVA20029 Airline Market Analysis and Network Planning	AVA30005 Advanced Aviation Analytics and Research Skills	AVA30006 Future Aviation Technologies and Operational Concepts
	Elective	Elective	Elective	Elective	Elective	Elective
Flight Theory units AVT Units delivered at CAE Moorabbin	AVT10005 Private Pilot Licence Theory	AVT10006 Commercial Pilot Licence Theory 1	AVT20003 Commercial Pilot Licence Theory 2	AVT30003 Air Transport Pilot Licence Theory 1	AVT30004 Air Transport Pilot Licence Theory 2	AVT30002 Air Transport Pilot Licence Theory 3
Flight Training units Practical flight training delivered at CAE Moorabbin	AVF80001 Private Pilot Licence Practicum		AVF80002 Commercial Pilot Licence Practicum 1	AVF80013 Commercial Pilot Licence Practicum 2	Choose one: AVF80005 Multi Crew Cooperation Practicum or AVF80006 Flight Instructor Rating Practicum	

Example Course Structure – Operations



Year One

Semester 1		Semester 2	
AVA10001 The Global Aviation System	+12.5	AVA10014 Aviation Project - Blue Sky Ideas	+12.5
AVA10011 Essential Aviation Analytical Skills	+12.5	AVA10017 Aviation Safety and Risk Management	+12.5
AVA10013 Aircraft Flight Operations for Managers	+12.5	AVA10016 Continuing Airworthiness Management	+12.5
Elective	+12.5	Elective	+12.5

Year Two

Semester 1		Semester 2	
AVA20024 Aviation Project: Managing Implementation	+12.5	AVA20025 Human Factors in Aviation	+12.5
AVA20028 Airport and Airline Planning: Factors and Outcomes	+12.5	AVA20027 Airline Crew Planning and Resourcing	+12.5
Elective	+12.5	AVA20029 Airline Market Analysis and Network Planning	+12.5
Elective	+12.5	Elective	+12.5

Year Three

Semester 1		Semester 2	
AVA30008 Aviation Capstone 1 – Project Planning	+12.5	AVA30009 Aviation Capstone 2: Project Implementation	+12.5
AVA30005 Advanced Aviation Analytics and Research Skills	+12.5	AVA30006 Current and Future Aviation Technologies and Operational Concepts	+12.5
AVA30014 Operations and Disruption Management	+12.5	Elective	+12.5
Elective	+12.5	Elective	+12.5

Core units

100 Credit points

A set of compulsory units you **MUST** complete as part of your Course.

First Major units

100 Credit points

A set of compulsory units you **MUST** complete as part of your Course.

Elective units

100 Credit points

A combination of elective units, or a Second Major, Co-Major, or a Minor.

Work Integrated Learning

A Professional Placement is a Work Integrated Learning (WIL) option. You can apply for a Professional Placement during your second year. More information on Professional Placement and other WIL options at [**Work Integrated Learning**](#)

Example Course Structure – UAS



Year One

Semester 1		Semester 2	
AVA10001 The Global Aviation System	+12.5	AVA10014 Aviation Project - Blue Sky Ideas	+12.5
AVA10011 Essential Aviation Analytical Skills	+12.5	AVA10017 Aviation Safety and Risk Management	+12.5
AVA10015 Introduction to Uncrewed Aircraft Systems	+12.5	AVA10007 Aircraft Aerodynamics and Performance	+12.5
AVF10001 Remote Pilot Licence Theory and Practicum	+12.5	Elective	+12.5

Year Two

Semester 1		Semester 2	
AVA20024 Aviation Project: Managing Implementation	+12.5	AVA20025 Human Factors in Aviation	+12.5
AVA20026 Uncrewed Aircraft Vehicle (UAV) Operations	+12.5	AVA20009 Airspace Management and Air Traffic Services	+12.5
Elective	+12.5	AVA30013 UAV Design and Propulsion Systems	+12.5
Elective	+12.5	Elective	+12.5

Year Three

Semester 1		Semester 2	
AVA30008 Aviation Capstone 1 – Project Planning	+12.5	AVA30009 Aviation Capstone 2: Project Implementation	+12.5
AVA30011 UAV Data Analysis	+12.5	AVA30012 Communication, Navigation and Cyber Security for UAV	+12.5
Elective	+12.5	Elective	+12.5
Elective	+12.5	Elective	+12.5

Core units

100 Credit points

A set of compulsory units you **MUST** complete as part of your Course.

First Major units

100 Credit points

A set of compulsory units you **MUST** complete as part of your Course.

Elective units

100 Credit points

A combination of elective units, or a Second Major, Co-Major, or a Minor.

Work Integrated Learning

A Professional Placement is a Work Integrated Learning (WIL) option. You can apply for a Professional Placement during your second year. More information on Professional Placement and other WIL options at [**Work Integrated Learning**](#)

Domestic Course Fees and HELP

The maximum HELP loan limit for 2026 is \$186,544.

Units	Flight hours	2026 fees
Bachelor of Aviation or Bachelor of Aviation Management total cost (Fees \$1,192 for each AVA / AVT unit worth 12.5 credit points)		\$28,611
Graduate Certificate (Piloting) – required units:		
– PPL Practicum	10h solo, 35h dual, 1h sim, 3h PPL test	\$30,440
– CPL Practicum 1	60h solo, 11.8h dual, 4h sim, 5h UPRT	\$36,170
– CPL Practicum 2	35h dual, 20h sim, 7.5h tests (CPL & MECIR)	\$47,990
Graduate Certificate (Piloting) – elective options:		
1. Multi-Crew Cooperation & Jet Orientation Course Practicum	36h sim (jet sim training)	\$12,610
2. Flight Instructor Rating Practicum	6h solo, 33.2h dual, 3h tests (FIR & Night training endorsements)	\$31,680

The Symbiotic ADAPT assessment

What's Involved?

Cognitive Reasoning

Assess the candidate's work-related cognitive capacity and suitability for training including Verbal Reasoning, Numerical Reasoning, Working Memory, Perceptual Speed & Accuracy, Spatial Relationship Reasoning and Abstract Reasoning.

Physics

This test assesses the candidate's ability to apply formula and calculations from the physics field. Increases in difficulty through 3 levels, Foundation, Intermediate and Advanced.

F.A.S.T

Assess how well they can manage multiple concurrent task demands. The test determines how well a candidate can prioritise tasks, manage multiple activities and learn from each flight scenario to improve their overall performance.

Personality Questionnaire

Designed to measure a candidate's personality, values, behaviour and attitudes. Widely used within the aviation sector, and includes traits that are specific to this sector, such as Safety Culture, in addition to the general traits derived from the Big Five Factor personality measures.

How can you prepare?

Candidates can prepare for the Symbiotic ADAPT assessment by focusing on several key areas:

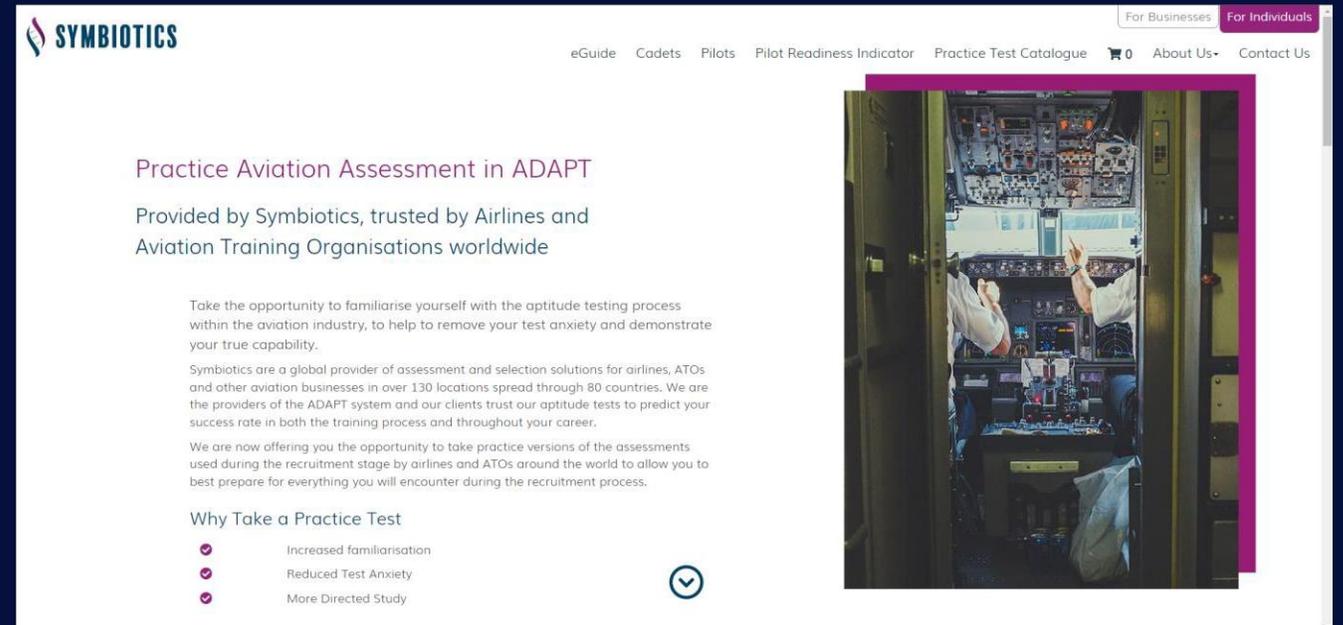
- ✓ **Aviation Knowledge**
 - Review flight principles, navigation, regs, and weather (guide/app/video).
- ✓ **Cognitive Skills**
 - Practice memory, mental math, and multitasking under timed drills.
- ✓ **Psychomotor Skills**
 - Train hand–eye coordination with flight sim, joystick, or reflex games.
- ✓ **Physics**
 - Revise forces, energy, motion, and aerodynamics with quick problems/examples.
- ✓ **Test Simulation**
 - Complete practice sessions in ADAPT (*next slide!)

Understanding the Assessment

Get Test-Ready!

Practice Cadet Pilot Aptitude Tests in ADAPT with instant results and personalised coaching tips.

Scan the QR code to register!

A screenshot of the Symbiotics website. The page features the Symbiotics logo at the top left and a navigation menu at the top right with links for 'eGuide', 'Cadets', 'Pilots', 'Pilot Readiness Indicator', 'Practice Test Catalogue', 'About Us', and 'Contact Us'. The main heading is 'Practice Aviation Assessment in ADAPT', followed by the sub-heading 'Provided by Symbiotics, trusted by Airlines and Aviation Training Organisations worldwide'. The text describes the opportunity to familiarize oneself with the aptitude testing process and mentions that Symbiotics is a global provider of assessment solutions. A section titled 'Why Take a Practice Test' lists three benefits: 'Increased familiarisation', 'Reduced Test Anxiety', and 'More Directed Study'. On the right side of the page, there is a photograph of a person in a cockpit simulator. A blue checkmark icon is visible in the bottom right corner of the page content.

Student Panel

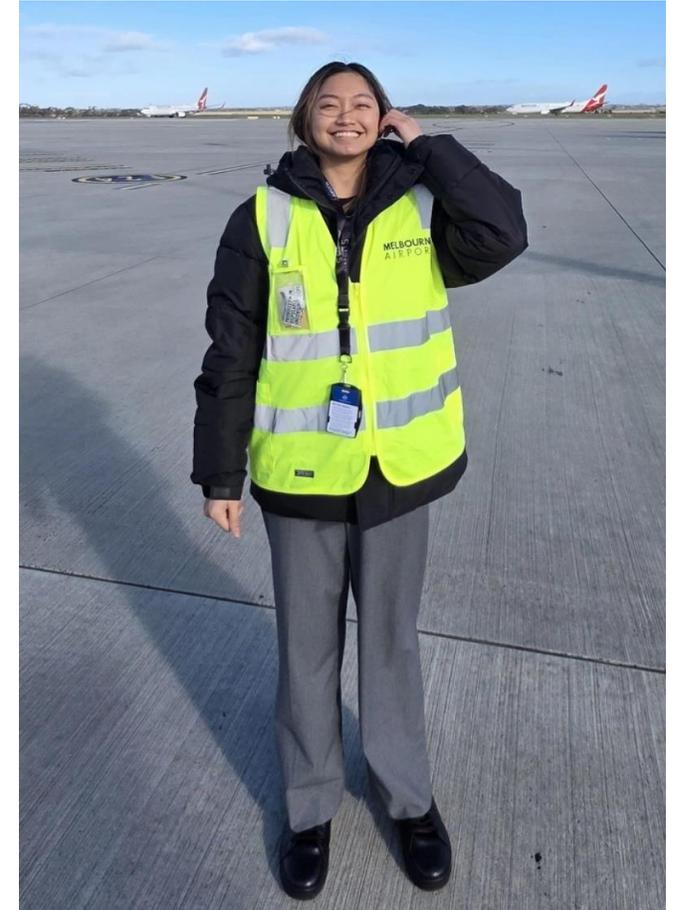
Oscar Liu

- Bachelor of Aviation Management/Bachelor of Business – 2023 intake
- Pathway: Holy Trinity College



Mela Pelle

- Bachelor of Aviation Management – 2024 intake
- Pathway: UniLink Diploma of Business



Rhiannon Marchbanks

- Bachelor of Aviation / Graduate Certificate of Aviation (Piloting) – 2025 intake
- Pathway: Malahide Community School Dublin

