



# COMMERCIAL PILOT LICENCE (CPL) THEORY

GET THE PERFECT PREPARATION FOR YOUR PILOT CAREER

#TheSkylsCalling

# PREPARE FOR YOUR CAREER AS A COMMERCIAL PILOT

A Commercial Pilot Licence (CPL) is the starting point for your pilot career. Building on the knowledge and skills you have perfected throughout your RPL and PPL training, during the CPL you will learn more advanced flight techniques and procedures in preparation for taking on professional work as a pilot.

Commercial Pilot Licence (CPL) Theory covers 7 separate units, which can be completed as a package or separately. All subjects are taught by experienced flight instructors, giving you the detailed preparation you need to be able to successfully pass your CASA exams and start your practical CPL flight training with a solid understanding of the required concepts.

We have developed 3 different course delivery methods, to give more student pilots the chance to be able to learn in line with the demands of their daily lives, from wherever they are in the world.



# CPL THEORY COURSE SYLLABUS

# COMMERCIAL PILOT LICENCE (CPL) THEORY SYLLABUS

## CPL AIRCRAFT GENERAL KNOWLEDGE (CSYA)

The general knowledge component of CPL training includes powerplants, aircraft systems, barometric flight instruments, gyroscopic flight instruments, aeronautical radio telephony, radio waves, propellers, constant speed units, and undercarriage systems.

## CPL METEOROLOGY (CMET)

Advanced meteorological theory in the CMET unit looks at composition of the atmosphere, heat, temperature, pressure and humidity, atmospheric stability, clouds and precipitation, visibility, wind, air masses and fronts, flight consideration, synoptic meteorology, weather services, and climatology.

## CPL FLIGHT RULES & AIR LAW (CLWA)

Advanced air law topics covered in the CLWA unit include documentation, flight crew licencing, flight rules and conditions of flight, air service operations, aerodromes, airspace, altimetry, emergencies, accidents and incidents, security, airworthiness and equipment.

## CPL NAVIGATION (CNAV)

Continuing from what you learned during RPL and PPL theory, you will develop a deeper understanding of the form of the earth, time in relation to aviation activities, charts and publications, navigational computations, pilot navigation and radio navigation.

## CPL HUMAN FACTORS (CHUF)

This comprehensive human factors unit covers health and fitness, alcohol and drugs, blood donations, hyperventilation, atmospheric pressure changes, vision, spatial disorientation and illusions, motion sickness, acceleration 'g' effects, hypoxia, information processing and decision making, stress and fatigue, ergonomics, TEM (Threat and Error Management), and crew coordination.

## CPL AERODYNAMICS (CADA)

This unit explores advanced aerodynamic theory including Bernoulli's Theorem and the Coanda Effect, as well as a more detailed insight into lift, drag, thrust, power, manoeuvres, effects of aircraft performance, stability, and aerodynamics design features.

## CPL PERFORMANCE (CFPA)

CFPA theory takes a detailed look at topics including density height, take-off and landing, climb, cruise and descent performance, weight calculations, loading, flight planning, ETP (Equal Time Point), PNR (Point of No Return), diversions, ALAs (Aeroplane Landing Areas), and fuel calculations.

## CPL EXAMS

CPL exams are conducted by CASA. The pass mark for all subjects is 70%, except for the Flight Rules and Air Law (CLWA) exam which is 80%.



# **CPL THEORY COURSE DELIVERY OPTIONS & STUDY TIMETABLE**



# LEARN AT YOUR OWN PACE, WHEREVER YOU ARE

Our flexible CPL Theory course delivery options include:

## 1. FACE TO FACE

Scheduled group classes taught at Learn To Fly's state-of-the-art training facility in Melbourne, with 3 additional instructor theory hours included. Choose between a weekday or weekend course schedule

## 2. VIRTUAL CLASSROOM:

Scheduled group classes presented using the Zoom Meeting online platform, with 2 additional online instructor theory hours included. Choose between a weekday or weekend course schedule. Includes 12 months access to videos.

## 3. ONLINE SUBSCRIPTION:

All classes available by secure student portal to watch at your own pace, with discounted instructor theory hours available for extended learning. Includes 12 months access to videos.

# STUDY TIMETABLE - FACE TO FACE & VIRTUAL CLASSROOM

WEEKDAY COURSE	CLWA	CHUF	CMET	CSYA	CNAV	CADA	CFPA
Monday	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700
Tuesday	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700
Wednesday	x	x	x	x	x	x	x
Thursday	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700
Friday	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700	1000-1700
<b>Total Contact Hours</b>	<b>16 Hours</b>	<b>16 Hours</b>	<b>24 Hours</b>	<b>40 Hours</b>	<b>40 Hours</b>	<b>40 Hours</b>	<b>40 Hours</b>
<b>Approx Course Duration</b>	<b>&lt; 1 Week</b>	<b>&lt; 1 Week</b>	<b>&lt; 2 Weeks</b>	<b>&lt; 2 Weeks</b>	<b>&lt; 2 Weeks</b>	<b>&lt; 2 Weeks</b>	<b>&lt; 2 Weeks</b>

WEEKEND COURSE	CLWA	CHUF	CMET	CSYA	CNAV	CADA	CFPA
Saturday or Sunday (Flexible)	0900-1800	0900-1800	0900-1800	0900-1800	0900-1800	0900-1800	0900-1800
<b>Total Contact Hours</b>	<b>16 Hours</b>	<b>16 Hours</b>	<b>24 Hours</b>	<b>40 Hours</b>	<b>40 Hours</b>	<b>40 Hours</b>	<b>40 Hours</b>
<b>Approx Course Duration</b>	<b>&lt; 3 Weeks</b>	<b>&lt; 3 Weeks</b>	<b>&lt; 4 Weeks</b>	<b>&lt; 6 Weeks</b>	<b>&lt; 6 Weeks</b>	<b>&lt; 6 Weeks</b>	<b>&lt; 6 Weeks</b>

Email [hello@learntofly.edu.au](mailto:hello@learntofly.edu.au) for next available **Face To Face** and **Virtual Classroom** course dates. Daily hours include 1 hour break. Weekend course days flexible based on student and class preferences. **Online Subscription** course completed at your own pace, with no set timetable required.



AIM: TO LEARN TO DESCEND THE AIRCRAFT AT VARIOUS SPEEDS & RATES

- OBJECTIVES:
- UNDERSTAND THE FORCES ACTING ON AN AIRCRAFT DURING A DESCENT
  - STATE THE TYPES OF DESCENT
  - UNDERSTAND THE VARIOUS CONSIDERATIONS IN A DESCENT



CONSIDERATIONS

CONDITIONS: GLIDE: flight without power or thrust

RATE OF DESCENT: vertical speed of the aircraft during descent

ANGLE OF DESCENT: angle between flight path and the earth's surface.

FACTORS	AoD	RoD
HEADWIND	↑	—
TAILWIND	↓	—
WEIGHT	—	↑

# COURSE PRICING & ADDITIONAL MATERIALS



# CPL THEORY - PRICING & INCLUSIONS



ITEM	FACE TO FACE CLASSES	VIRTUAL CLASSROOM	ONLINE SUBSCRIPTION
CPL Flight Rules & Air Law (CLWA)	\$850	\$850	\$250
CPL Human Factors (CHUF)	\$850	\$850	\$250
CPL Meteorology (CMET)	\$1,150	\$1,150	\$350
CPL Aerodynamics (CADA)	\$1,550	\$1,550	\$550
CPL Aircraft General Knowledge (CSYA)	\$1,550	\$1,550	\$550
CPL Navigation (CNAV)	\$1,550	\$1,550	\$550
CPL Performance (CFPA)	\$1,550	\$1,550	\$550
<b>CPL Theory Package (All 7 Subjects)</b>	<b>\$7,375</b>	<b>\$7,375</b>	<b>\$2,450</b>
<b>Additional 1-on-1 Instructor Hours</b>	3hrs Included Per Subject	2hrs Included Per Subject	\$37.50/hr (50% Discount)
<b>Mock Exam Package (2 Per Subject)</b>	Included	Included	\$30/Subject or \$185/All Subjects

**Online Subscription** prices include 12 months subscription access to the course videos on the LTF Student Portal. Prices are in AUD and are subject to change. You will be charged based on the current pricing schedule at the time of booking. Current as at Jan 2022.

# PAYMENT OPTIONS - MONTHLY INTEREST FREE INSTALMENTS



ITEM	FACE TO FACE CLASSES	VIRTUAL CLASSROOM	ONLINE SUBSCRIPTION
CPL Flight Rules & Air Law (CLWA)	Full Payment Only	Full Payment Only	Full Payment Only
CPL Human Factors (CHUF)	Full Payment Only	Full Payment Only	Full Payment Only
CPL Meteorology (CMET)	\$775 x 2 Monthly Instalments	\$775 x 2 Monthly Instalments	Full Payment Only
CPL Aerodynamics (CADA)	\$775 x 2 Monthly Instalments	\$775 x 2 Monthly Instalments	Full Payment Only
CPL Aircraft General Knowledge (CSYA)	\$775 x 2 Monthly Instalments	\$775 x 2 Monthly Instalments	Full Payment Only
CPL Navigation (CNAV)	\$775 x 2 Monthly Instalments	\$775 x 2 Monthly Instalments	Full Payment Only
CPL Performance (CFPA)	\$775 x 2 Monthly Instalments	\$775 x 2 Monthly Instalments	Full Payment Only
<b>CPL Theory Package (All 7 Subjects)</b>	<b>\$1,475 x 5 Monthly Instalments</b>	<b>\$1,475 x 5 Monthly Instalments</b>	<b>\$1,225 x 2 Monthly Instalments</b>



Prices are in AUD and are subject to change. You will be charged based on the current pricing schedule at the time of booking. Current as at Jan 2022. **Splitit** allows you to split your costs over multiple interest free monthly instalments. Visit [www.learntofly.edu.au/splitit](http://www.learntofly.edu.au/splitit) for full details.

# CPL THEORY - REQUIRED COURSE ITEMS

ITEM	CSYA	CHUF	CMET	CLWA	CNAV	CADA	CFPA
CAR 1988, CASR 1998, CAO	x	x	x	✓	x	x	x
CAAP 92-1 (1) + 234-1 (2.1)	x	x	x	x	x	x	✓
Aeronautical Information Package (AIP)	x	x	✓	✓	✓	x	✓
En Route Supplement Australia (ERSA)	x	x	x	✓	✓	x	✓
Planning Chart Australia (PCA)	x	x	✓	✓	✓	x	x
En Route Chart Low 1/2 & 3/4	x	x	x	✓	✓	x	x
Hobart/Launceston VTC	x	x	x	✓	✓	x	x
Brisbane-Sunshine Coast/Gold Coast VTC	x	x	x	✓	✓	x	x
Sydney WAC	x	x	✓	x	✓	x	x
Jeppeson CR-3 Flight Computer	x	x	x	x	✓	x	x
ATC Square Protractor & Navigation Ruler	x	x	x	x	✓	x	x
Bob Tait CPL Aircraft General Knowledge Textbook	✓	x	x	x	x	x	x
Bob Tait Human Factors Textbook	x	✓	x	x	x	x	x
Bob Tait CPL Meteorology Textbook	x	x	✓	x	x	x	x
Bob Tait CPL Air Law Textbook	x	x	x	✓	x	x	x
Bob Tait CPL Navigation Textbook	x	x	x	x	✓	x	x
Bob Tait CPL Aerodynamics Textbook	x	x	x	x	x	✓	x
Bob Tait CPL Performance Textbook	x	x	x	x	x	x	✓

Some items are available to access in the LTF Student Portal. Please email [hello@learntofly.edu.au](mailto:hello@learntofly.edu.au) for more information.



## OUR GRADUATE: **KENNY WON**

*“Having a solid CPL theory foundation will not just help you to pass the exams – it will make you a better pilot. Sometimes things taught in the air might not stick in your mind as much because there are so many other things to focus on at that moment. The LTF instructors make sure students have a good understanding of every topic, and they even go beyond the syllabus to relate the content to real life situations they’ve experienced as a pilot” – Kenny Won from South Korea*



# CONTACT US

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