

## Private Pilot License - Aeroplane

### Flight Syllabus

The minimum flying requirements for the Private Pilot License -Aeroplane include the following:

#### 45 Hours Total Flight Time

##### 17 Hours Dual

- 3 Hours Cross-Country
- 5 Hours Instrument (Maximum 3 in the Simulator)

##### 12 Hours Solo

- 5 Hours Cross-Country
- 150 Nautical Mile Flight with 2 Full Stop Landings at Points Other than the Point of Departure

**Privileges:** The holder of a Private Pilot License - Aeroplane (PPL) may act as Pilot-in-Command (PIC) or co-pilot of an aeroplane of a class and type in respect of which the license is endorsed with ratings, and act as PIC of an ultra-light aeroplane.



## **Private Pilot License – Aeroplane Flight Syllabus**

### **Written Examination**

At least 60% must be obtained on the Transport Canada Private Pilot written examination for aeroplanes (PPAER). The PPAER examination is partitioned into four sections: Air Law, Navigation, Meteorology, and Aeronautics – General Knowledge. Each section must be passed with a minimum mark of 60%.

Applicants for the PPL written examination must have completed at least 10 hours of flight time.

### **Flight Test**

Within the 12 months preceding the date of application for a Private Pilot License - Aeroplane, the PPL flight test must be successfully passed with a score of at least 50%. The standards to be attained in the flight test are set out in the Transport Canada publication *Flight Test Guide - Private Pilot License – Aeroplane (TP 13723E)*.

Applicants for the PPL flight test require a letter of recommendation from a flight instructor, and a minimum of 35 hours of flight time.



**Attitudes & Movements/Straight & Level Flight****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Introduction to the aircraft: its documents, major components, Pilot Operating Handbook (POH), and Air Exercises 1-6 from the Flight Training Manual.

**Required Reading**

Flight Training Manual:

Part 1 – The Aircraft and Operational Considerations

Part 2 – Air Exercises

1. Familiarization
2. Aircraft Familiarization and Preparation for Flight
3. Ancillary Controls
4. Taxiing
5. Attitudes and Movements
6. Straight and Level Flight
7. Turns- Gentle and Medium

Pilot Operating Handbook

**Pre-flight Briefing** - Note: Allow 0.5 hours for the PGI and aircraft pre-flight inspection.

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Weight and balance form
3. Use of aircraft checklist and engine start
4. Taxiing
5. Radio communication; tuning, volume, audio panel
6. Aircraft run-up
7. Take-off, circuit departure and climb-out
8. Straight and level flight
9. Attitudes and movements
10. Turns - gentle and medium

**Demonstration of Lesson #2 - Climbing and Descending**

**Climbing & Descending**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Practice of basic flight maneuvers and introduction to basic climbs and descents.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

6. Straight and Level various airspeeds

7. Climbing

8. Descending

Pilot Operating Handbook

Aeronautical Information Manual (A.I.M.) (**Prior to pre-solo examination**):

AGA - Sections 2.1-7.20

RAC - Sections 1.1-5.8

LRA - Sections 1.1-3.9

AIR - Sections 1.1-4.6

**Pre-flight Briefing** - Note: Allow 0.5 hours for the PGI and aircraft pre-flight inspection.

**Flight Sequences**

1. Introduction of the A.I.M.
2. Aircraft pre-flight inspection
3. Use of aircraft checklist
4. Review of Lesson #1
5. Review of Gentle and Medium Turns
6. Basic climbs and descents

**Demonstration of Lesson #3** - Climbing and Descending Turns



**Climbing and Descending Turns**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Review of air exercises covered in previous lessons, and introduction of climbing and descending turns.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

7, 8, 9. Going From Climb to Descent to Climb  
Combined With Descending and Climbing Turns

**Pre-flight Briefing - Journey Log Book Handout****Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. **Normal Take-off**
5. Review of Lessons #1 and #2
6. Level turns - gentle and medium
7. Climbing and descending turns
8. Demonstration of steep turns
9. Introduction to Approach and Landing

**Demonstration of Lesson #4 – Range & Endurance**

**Range & Endurance, Slow Flight****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Review of air exercises covered in previous lessons, introduction of flying for range and endurance, and the introduction to slow flight

**Required Reading**

Flight Training Manual:

Part 1 - Basic Principles of Flight, review pages 3-8

Part 2 - Air Exercises

10. Flight for Range and Endurance

**Pre-flight Briefing** - Aircraft Documents Introduction**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of Lessons #1-#3
5. Flight for range
6. Flight for endurance
7. Introduction to slow flight
8. Introduction to map reading
9. Approach to Landing

**Slow Flight, Steep Turns**

**Date Completed:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

Review of air exercises covered in previous lessons, and to recognize the symptoms of slow flight and initiate a prompt recovery while maintaining altitude and heading.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

11. Slow flight

**Pre-flight Briefing** - As required.

Weight and Balance Introduction

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of Lessons #1-#4
5. Steep turns
6. Slow flight

**Demonstration of Lesson #6** - Stalls

**Stalls****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Review of air exercises covered in previous lessons, and to recognize the symptoms of a stall and promptly execute the correct recovery procedure in level flight, climbing and descending turns, and in the overshoot.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

12. Stalls

**Pre-flight Briefing** - As required. Weather Introduction**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of Lessons #1-#5
5. Stalls - power-off and power-on
6. Stalls - with and without flaps

**Demonstration of Lesson #7** - Spinning



**Spins**

**Date Completed:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

Review of air exercises covered in previous lessons, and to recognize the symptoms of a spin and promptly execute the correct recovery procedure.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

13. Spinning

**Pre-flight Briefing - NOTAMs Introduction**

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of Lessons #1-#6
5. Spinning

**Demonstration of Lesson #8 - Circuit**

**Circuit**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

To learn the correct procedure of flying an aircraft within the vicinity of an airport for the purpose of taking-off and landing.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Balked Approach

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. The circuit
5. Use of flaps

**Demonstration of Lesson #9** - Overshoot

**Circuit****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Review the exercises covered in the last lesson, and introduce communication failures, the overshoot, engine failures in the circuit, runway change procedures, and balloon & bounce recovery. If able, review the take-off and landing procedures used in a crosswind.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Balked Approach

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. The circuit
5. Use of flaps
6. Loss of communication procedures
7. Overshoot
8. Engine failures in the circuit
9. Balloon and bounce recovery
10. Crosswind procedures (if able)

**Demonstration of Lesson #11 - Circuit Review****Notes:**

Write the pre-solo exam (Radio Procedures)



**Spiral Dives and Slipping****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Review of air exercises covered in previous lessons.  
Introduction to spiral dives, their symptoms and recovery procedure, and to slipping turns, forward slips and side slips.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

14. Spiral Dives

15. Slipping

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of Slow Flight
5. Spiral Dives
6. Slipping

**Circuit****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Review the exercises covered in the last lesson, including communication failures, the overshoot, engine failures in the circuit, runway change procedures, and balloon & bounce recovery. If able, review the take-off and landing procedures used in a crosswind.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Balked Approach

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. The circuit
5. Use of flaps
6. Loss of communication procedures
7. Circuit Re-direct/Runway Change (if able)
8. Overshoot
9. Engine failures in the circuit
10. Balloon and bounce recovery
11. Crosswind procedures (if able)

**Demonstration of Lesson #13 - Circuit Review**

**Circuit****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Review the exercises covered in the last lessons in order to gain proficiency with taking-off, circuits, approaches, and landings.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Balked Approach

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. The circuit
5. Use of flaps
6. No flap landings
7. Loss of communication procedures
8. Overshoot
9. Engine failures in the circuit
10. Balloon and bounce recovery
11. Crosswind procedures (if able)

**Demonstration of Lesson #13** - Circuit Review**Notes:**

Write the pre-solo exam (PSTAR)



**Circuit**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

A dual circuit check, followed by **The Unforgettable First Solo!!**

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Balked Approach

Emergency Procedures

**Pre-flight Briefing** - As required.

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. The circuit

**Demonstration of Lesson #14** - Circuit Review

**Circuit**

**Date Completed:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

To reinforce the skills learned up to and including the first solo with emphasis on handling the aircraft in the circuit.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Emergency Procedures

**Pre-flight Briefing** - As required.

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. The circuit



**Circuit**

**Date Completed:** \_\_\_\_\_

**Student Signature:** \_\_\_\_\_

Solo flight to build confidence and practice correct circuit procedures.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook

Emergency Procedures

Performance

**Pre-flight Briefing** - As required.

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. The circuit

**Air Exercises****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

Review of air exercises from previous lessons, in order to strengthen the student's abilities.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

- 9. Turns
- 11. Slow Flight
- 12. Stalls
- 15. Slipping
- 22. Forced Approach
- 24. Instrument – Full Panel

**Pre-flight Briefing** - As required.**Flight Sequences**

- 1. Aircraft pre-flight inspection
- 2. Review aircraft documents
- 3. Use of aircraft checklist
- 4. Review of steep turns
- 5. Review of slow flight
- 6. Review of stalls
- 7. Review of slipping
- 8. Demonstration and review of forced approach
- 9. Introduction to full panel instrument scan straight and level and rate one turns

**Demonstration of Lesson #18** – Forced Approach

**Air Exercises**

**Date Completed:** \_\_\_\_\_

**Student Signature:** \_\_\_\_\_

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

9. Turns

11. Slow Flight

12. Stalls

15. Slipping

22. Forced Approach

23. Pilot Navigation

Pilot Operating Handbook:

Performance - Use of Performance Charts

**Pre-flight Briefing** - As required.

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of steep turns
5. Review of slow flight
6. Review of stalls
7. Review of slipping

**Forced Approach**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Learn the correct forced approach procedure so that, in the event of an engine failure, the aircraft can be maneuvered in a manner that results in a successful approach and landing

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

20. Illusions Caused by Drift

22. Forced Approach

23. Pilot Navigation

Pilot Operating Handbook: Emergency Procedures

Emergency Landing Without Engine Power

Forced Approach Handout

Performance - Use of Performance Charts

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Forced approach
5. Demonstrate illusions caused by drift (if able)
6. Instrument Full Panel

**Demonstration of Lesson #21** – Precautionary Approach

**Forced Approach**

**Date Completed:** \_\_\_\_\_

**Student Signature:** \_\_\_\_\_

Solo review of the forced landing exercise covered in previous lessons.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

22. Forced Approach

23. Pilot Navigation

Pilot Operating Handbook: Emergency Procedures

Emergency Landing Without Engine Power

Performance - Use of Performance Charts

**Pre-flight Briefing** - As required.

**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of forced approach

**Circuit**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

A solo flight to practice short field take-off and landing procedures.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Short Field Take-off and Landing

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Short field techniques

**Circuit(CYVK)**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Review of exercises from previous lessons, and procedures for taking-off and landing at uncontrolled aerodromes.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

A.I.M.:

RAC - Sections 4.5.1-4.5.8

Pilot Operating Handbook:

Normal Procedures - Wing Flap Settings

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Uncontrolled aerodrome procedures (Vernon)
5. Circuits with and without flaps
6. Short and soft field take-offs and landings (Vernon)

**Precautionary Landing**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Review of the correct procedures for a forced approach, and introduction of the procedures associated with a precautionary landing.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

21. Precautionary Landing

22. Forced Approach

Pilot Operating Handbook: Emergency Procedures

Precautionary Landing With Engine Power

Performance - Use of Performance Charts

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of forced approach
5. Precautionary landing
6. Demonstrate illusions caused by drift (if able)
7. Instrument flying full panel



**Precautionary Landing**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Solo review of the precautionary landing exercise covered in the previous dual lesson.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

21. Precautionary Landing

23. Pilot Navigation

Pilot Operating Handbook: Emergency Procedures

Precautionary Landing With Engine Power

Performance - Use of Performance Charts

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of precautionary landing

**Circuit**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

A solo flight to practice short field take-off and landing procedures.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Short Field Take-off and Landing

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

5. Aircraft pre-flight inspection
6. Review aircraft documents
7. Use of aircraft checklist
8. Short field techniques

**Instrument Flying(Sim)**

**Date Completed:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

An introduction to instrument flying in the simulator.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

24. Instrument Flying

**Pre-flight Briefing** - As required.

**Session Sequences**

1. Frasca 131 simulator introduction
2. Use of aircraft checklist
3. Test and set navigation equipment
4. Straight and level flight
5. Climbing and descending
6. Rate one turns to predetermined headings
7. Introduction to Automatic Direction Finder (ADF)

**Instrument Flying**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

An introduction to flying the aircraft by sole reference to the flight instruments.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

24. Instrument Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Test and set navigation equipment
5. Straight and level flight
6. Climbing and descending
7. Rate one turns to predetermined headings
8. ADF homing

**Instrument Flying(Sim)**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Review of instrument flying in the simulator, and introduction to unusual attitudes, limited panel techniques, and VHF Omnidirectional (VOR) navigation.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

24. Instrument Flying

**Pre-flight Briefing** - As required.**Session Sequences**

1. Use of aircraft checklist
2. Test and set navigation equipment
3. Straight and level flight
4. Climbing and descending
5. Rate one turns to predetermined headings
6. Unusual attitudes
7. Introduction to limited panel techniques
8. Introduction to VHF Omnidirectional (VOR)

**Instrument Flying**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

A review of exercises from Lessons #25-27, and an introduction to climbing and descending turns made by sole reference to the flight instruments.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

24. Instrument Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Test and set navigation equipment
5. Straight and level flight
6. Climbing and descending
7. Climbing and descending turns
8. Unusual attitudes
9. Limited panel timed turns to predetermined headings
10. VOR homing

**Instrument Flying**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

A review of exercises from Lessons #25-28.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

24. Instrument Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Test and set navigation equipment
5. Straight and level flight at various power settings
6. Full panel turns at various rates
7. Full panel unusual attitudes
8. Limited panel timed turns to predetermined headings

**Circuit**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Introduction to soft field take-off and landing procedures.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

A.I.M.:

RAC - Sections 4.5.1-4.5.8

Pilot Operating Handbook:

Normal Procedures - Wing Flap Settings

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Soft field techniques



**Circuit**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

A solo flight to practice soft field take-off and landing procedures.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

16. Take-off

17. The Circuit

18. Approach and Landing

Pilot Operating Handbook:

Normal Procedures - Wing Flap Settings

Emergency Procedures

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Soft field techniques

**Mini Cross-Country Flight**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

An introduction to flight planning and pilot navigation for a cross-country flight.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

10. Range and Endurance

23. Pilot Navigation

Pilot Operating Handbook:

Performance - Performance Charts

A.I.M.:

RAC - Section 5.1

Handout - Mountain Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Flight planning (CYLW-Oyama-CZAM-CYLW)
2. Aircraft pre-flight inspection
3. Review aircraft documents
4. Use of aircraft checklist
5. Test and set navigation equipment
6. Open flight plan
7. Review departure and enroute procedures
8. Review map reading techniques
9. Review track error correction techniques
10. Review procedures at uncontrolled aerodromes
11. Review flight for range and endurance
12. Close flight plan

**Mini Cross-Country Flight**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

A solo review of the cross-country flight from Lesson #32.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

10. Range and Endurance

23. Pilot Navigation

Pilot Operating Handbook:

Performance - Performance Charts

A.I.M.:

RAC - Section 5.1

Handout - Mountain Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Flight planning (CYLW-Oyama-CZAM-CYLW)
2. Aircraft pre-flight inspection
3. Review aircraft documents
4. Use of aircraft checklist
5. Testing and setting navigation equipment
6. Open flight plan
7. Review departure and enroute procedures
8. Review map reading techniques
9. Review track error correction techniques
10. Review procedures at uncontrolled aerodromes
11. Review flight for range and endurance
12. Close flight plan

**Notes:**

\*\*Remember to obtain a weather and NOTAM briefing from Flight Services prior to departure\*\*



**Diversions**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

An introduction to the procedures for diverting to an alternate destination during a cross-country flight.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

10. Range and Endurance

23. Pilot Navigation

Pilot Operating Handbook:

Performance - Performance Charts

Handout - Mountain Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Test and set navigation equipment
5. Diversion to an alternate destination
6. Review flight for range and endurance
7. Review low level navigation techniques

**Mini Cross-Country Flight**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

A solo cross-country flight with a stop, and circuits, in Penticton.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

10. Range and Endurance

23. Pilot Navigation

Pilot Operating Handbook:

Performance - Performance Charts

A.I.M.:

RAC - Section 5.1

Handout - Mountain Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Flight planning (CYLW-Peachland- CYYF-CYLW)
2. Aircraft pre-flight inspection
3. Review aircraft documents
4. Use of aircraft checklist
5. Test and set navigation equipment
6. Open flight plan
7. Review departure and enroute procedures
8. Review map reading techniques
9. Review track error correction techniques
10. Review radio and circuit procedures in Class E control zones
11. Review flight for range and endurance
12. Close flight plan

**Major Cross-Country Flight**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Long cross-country flight with a stop in Kamloops, and a stop-and-go in Penticton.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

10. Range and Endurance

23. Pilot Navigation

Pilot Operating Handbook:

Performance - Performance Charts

A.I.M.:

RAC - Section 5.1

Handout - Mountain Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Flight planning (CYLW-Swan Lake-CYKA-CYYF-CYLW)\*
2. Aircraft pre-flight inspection
3. Review aircraft documents
4. Use of aircraft checklist
5. Test and set navigation equipment
6. Open flight plan
7. Review departure and enroute procedures
8. Review map reading techniques
9. Review track error correction techniques
10. Review procedures at uncontrolled aerodromes, and in Class E control zones
11. Review flight for range and endurance
12. Close flight plan



**150NM Cross-Country Flight**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

A solo review of the long cross-country flight from Lesson #35, with a stop in Kamloops and in Penticton (3 log book entries).

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

10. Range and Endurance

23. Pilot Navigation

Pilot Operating Handbook:

Performance - Performance Charts

A.I.M.:

RAC - Section 5.1

Handout - Mountain Flying

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Flight planning (CYLW-Swan Lake- CYKA-CYYF-CYLW)\*
2. Aircraft pre-flight inspection
3. Review aircraft documents
4. Use of aircraft checklist
5. Test and set navigation equipment
6. Open flight plan
7. Review departure and enroute procedures
8. Review map reading techniques
9. Review track error correction techniques
10. Review procedures at uncontrolled aerodromes, and in Class E control zones
11. Review flight for range and endurance
12. Close flight plan



**Air Exercises****Date Completed:** \_\_\_\_\_**Instructor Signature:** \_\_\_\_\_

A review of all air exercises in order to bring the student up to flight test standards.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

Review All Relevant Sections

Transport Canada Flight Test Guide - Private Pilot

License (Aeroplane) TP 13723E

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of short field take-off procedures
5. Review of steep turns
6. Review of slow flight
7. Review of stalls
8. Review of spinning
9. Review of slipping
10. Review of forced approach
11. Review of precautionary landing
12. Review of short field approach and landing
13. Review of Full Panel instrument flying



**Air Exercises**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

A solo review of all air exercises covered in Lesson #38.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

Review All Relevant Sections

Transport Canada Flight Test Guide - Private Pilot

License(Aeroplane) TP 13723E

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Review of short field take-off procedures
5. Review of steep turns
6. Review of slow flight
7. Review of stalls
8. Review of slipping
9. Review of forced approach
10. Review of precautionary landing
11. Review of short field approach and landing

**Air Exercises Review Flight**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

A dual flight leading up to the pre-flight test flight. The instructor will be very demanding to ensure that all flight test standards are met, and will concentrate on the student's weaknesses.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

Review All Relevant Sections

Transport Canada Flight Test Guide - Private Pilot

License(Aeroplane) TP 13723E

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Flight planning (CYLW-Oyama-CZAM)
2. Aircraft pre-flight inspection
3. Review aircraft documents
4. Use of aircraft checklist
5. Test and set navigation equipment
6. Review soft field take-off procedures at Kelowna
7. Review departure and enroute procedures, including ETA revisions and groundspeed checks
8. Review track error correction techniques
9. Review diversion to an alternate destination
10. Review forced approaches
11. Review precautionary landings
12. Review short field landing and take-off at Vernon
13. Review soft field approach and landing at Kelowna

**Air Exercises Review Flight**

Date Completed: \_\_\_\_\_

Student Signature: \_\_\_\_\_

A solo review flight of the air exercises carried out in Lesson #40, with a focus on those which require additional practice to meet flight test standards.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

Review All Relevant Sections

Transport Canada Flight Test Guide - Private Pilot

License(Aeroplane) TP 13723E

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Flight planning (CYLW-Oyama-CZAM)
2. Aircraft pre-flight inspection
3. Review aircraft documents
4. Use of aircraft checklist
5. Test and set navigation equipment
6. Review soft field take-off procedures at Kelowna
7. Review departure and enroute procedures, including ETA revisions and groundspeed checks
8. Review track error correction techniques
9. Review diversion to an alternate destination
10. Review forced approaches
11. Review precautionary landings
12. Review short field landing and take-off at Vernon
13. Review soft field approach and landing at Kelowna

**Notes:**

\* For issuance of the Private Pilot License - Aeroplane, solo cross-country time must be a minimum of 5 hours, so ensure that you have sufficient hours after this flight.



**Air Exercises Review Flight**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

The final flight before the pre-flight test. The time should be spent reviewing all aspects of flight, maintaining flight test standards, and building the student's confidence.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

Review All Relevant Sections

Transport Canada Flight Test Guide - Private Pilot

License(Aeroplane) TP 13723E

Handout - Flight Test Questions

**Pre-flight Briefing** - As required.**Flight Sequences**

1. Aircraft pre-flight inspection
2. Review aircraft documents
3. Use of aircraft checklist
4. Air exercises as required
5. Short field take-offs and landings
6. Soft field take-offs and landings

**Pre-Flight Test**

Date Completed: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

The instructor conducting the pre-flight test will test the student to the same standards expected on the actual flight test. An evaluation of the student's performance will be provided at the end of the flight.

**Required Reading**

Flight Training Manual:

Part 2 - Air Exercises

Review All Relevant Sections

Transport Canada Flight Test Guide - Private Pilot

License(Aeroplane) TP 13723E

Handout - Flight Test Questions

**Pre-flight Briefing** - As required.\***Flight Sequences**

1. Ground portion – aeroplane familiarization and preparation for flight
2. Aircraft pre-flight inspection
3. Flight test exercises
4. Post-flight debriefing

**Notes:**

\*Schedule an additional hour for the ground portion of the pre-flight test.

**Recommendation for Flight Test - If Successful**

\*\*\*\*\*  
 After completing your flight test, you may wish to talk to your instructor about basic ADF and VOR flight instruction and/or Night Rating training.  
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