



PILOT RISE
LLC

Commercial Pilot Syllabus

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Version 2

Description:

This course helps you fulfill the requirements of 14 CFR, Section 61, Subpart F for obtaining a commercial pilot certificate for Airplane Single Engine Land. The focus of this course is to teach you piloting skills not just to pass a test, but to be a safe and knowledgeable pilot.

The student is expected to begin training with about 215 hours total time, have their required cross-country time, complete their 2h 100nm training cross country during their instrument rating, complete 300nm solo cross country, and meet all other requirements that do not include training. The student may also complete these requirements during their training, but it is not included in the syllabus.

The student must complete 10 hours of training in a complex or TAA aircraft for the commercial pilot requirements. The instructor must integrate this training with their student as applicable. A portion of the training will be done in a TAA C172 or our complex Mooney M20F. It is recommended that the instructor does this early on in training. It is also recommended for the student to take their checkride in the same TAA or Complex aircraft they trained in.

This course consists of four major parts:

- Flight training
- Ground training
- Basic Aviation Training Device (BATD)
- Readings provided to you for new Commercial Pilot knowledge
- Review of your Private Pilot Online Ground School

Objective:

The student will obtain the knowledge, skill, and aeronautical experience necessary to meet the requirements for a commercial pilot certificate with an airplane category rating and single-engine land class rating.

Topics:

Ground Training:

1. Commercial Privileges
2. Principles of Flight
3. Airspace
4. Flight Planning
5. Navigation
6. Weather
7. Instruments
8. Weight and Balance
9. Aircraft Performance
10. Airport Operations
11. Regulations
12. Aircraft Systems
13. Other Technical Subjects

Flight Training:

1. Commercial Maneuvers
2. Fundamental Maneuvers
3. Controls and Instruments
4. Airport Operations
5. Preflight Planning
6. Preflight Checks
7. Takeoffs
8. Landings
9. Maneuvers, Stalls, Slow Flight
10. Emergency Operations
11. Navigation
12. Complex or TAA Training

Ground Training:

Students are expected to return to their training videos used within our Private Pilot Syllabus to review information.

Students will also need to purchase the Sheppard Air program to prepare for their commercial written test.

We will provide additional materials to better understand how part 119 is applicable to commercial pilots.

BATD:

Although a BATD may not be used to log hours toward your commercial pilot certificate, it can reduce costs by reducing the number of hours you need to train in the aircraft. If you are close to the 250-hour requirement or have already passed it, it is advisable to use the BATD with your instructor.

Consider using the BATD on your own to practice for a fraction of the cost of an airplane.

Lesson Time Allocation

This is an estimate. It is possible to finish with fewer hours. It is also possible to need more training.

Lesson	Dual	Solo/PIC	TAA / Complex	Ground
STAGE 1 - Review				
1	2.5			3.0
2	2.0			0.7
STAGE 2 - Commercial Maneuvers				
1	2.0		2.0	1.5
2	2.0		2.0	1.2
3		5.0		
4	2.0		2.0	0.6
STAGE 3 - Checkride Prep				
1		5.0		
2	1.0		1.0	2.0
3	3.0		3.0	3.0
Totals	14.5	10.0	10.0	12.0

STAGE 1 - LESSON 1

Dual - Local

Objective:

During this lesson, the student will review private pilot maneuvers and procedures. This is essentially a mock Private Pilot checkride with room for instruction for weak areas.

GROUND

Lesson Review:

- Pilot Documents
- Logbook Review
- Aircraft Documents
- Maintenance Logbooks
- ADs
- Flight Planning
- Pilot Qualifications
- Airworthiness Requirements
- Weather Information
- Cross Country Flight Planning
- Airspace
- Performance & Limitations
- Systems
- Human Factors
- Preflight

HOMEWORK

- Study weak areas
- Review training videos for weak areas
- Read document about part 119

FLIGHT

Lesson Review:

- Use of checklists
- Cockpit Management
- Engine Start
- Taxiing
- Run-Up
- Radio Communications
- Traffic Pattern Operations
- Deadreckoning
- Pilotage
- Diversion
- S-Turns
- Turns around a point
- Short Field Takeoffs & Landings
- Soft Field Takeoffs & Landings
- Normal Takeoffs & Landings
- Forward Slips
- Go-Around
- System & Equipment Malfunctions
- INSTRUMENT Straight & Level
- INSTRUMENT Turns to Headings
- INSTRUMENT Constant Airspeed Climbs & Descents
- INSTRUMENT Tracking a VOR
- INSTRUMENT Unusual Attitudes
- Steep Turns
- Power-Off Stalls
- Power-On Stalls
- Slow Flight
- Emergency Descent
- Emergency Approach & Landings
- Collision Avoidance Precautions
- Wake Turbulence Avoidance
- Postflight Procedures
- Situational Awareness
- Aeronautical Decision Making

STAGE 1 - LESSON 2

Dual - Local

Objective:

The student will review weak areas from the previous lesson to make sure they have a strong foundation to become a commercial pilot. Some students may need to take time to practice these areas on their own before this lesson.

GROUND

Review:

- As required

FLIGHT

Review:

- As required

HOMEWORK

- Study oral book

STAGE 2 - LESSON 1

Dual - Local

Objective:

The student will be introduced to commercial maneuvers and they will practice other maneuvers to meet commercial standards. This training should take place in a TAA or Complex aircraft.

GROUND

Lesson Introduction:

- Steep Turns
- Accelerated Stalls
- Eights on Pylons
- Lazy Eights
- Chandelles
- Steep Spiral
- 180 Power Off
- Commercial Topics:
 - Holding Out
 - Common Carriage
 - Private Carriage
 - Part 119.1(e)

FLIGHT

Review:

- Short Field Takeoffs
- Short Field Landings
- Soft Field Takeoffs
- Soft Field Landings
- Slow Flight
- Various Stalls
- Emergency Procedures

Lesson Introduction:

- Steep Turns
- Accelerated Stalls
- Eights on Pylons
- Lazy Eights
- Chandelles
- Steep Spiral
- 180 Power Off

HOMEWORK

- Study oral book
- Study TAA or complex aircraft handbook
- Complete the new aircraft form for the TAA or complex aircraft.

STAGE 2 - LESSON 2

Dual - Local

Objective:

The student will practice commercial maneuvers and any weak areas. This training should take place in a TAA or Complex aircraft.

GROUND

Lesson Introduction:

- Supplemental Oxygen
- Pressurization

Review:

- Commercial Topics

FLIGHT

Review:

- Short Field Takeoffs
- Short Field Landings
- Soft Field Takeoffs
- Soft Field Landings
- Slow Flight
- Various Stalls
- Steep Turns
- Accelerated Stalls
- Eights on Pylons
- Lazy Eights
- Chandelles
- Steep Spiral
- 180 Power Off
- Emergency Procedures

HOMEWORK

- Study oral book
- Study TAA or complex aircraft handbook

STAGE 2 - LESSON 3

Solo - Local

Objective:

The student will practice commercial maneuvers and any weak areas on their own. This practice should take place in a TAA or Complex aircraft if the student is approved to do so.

FLIGHT

Review:

- Short Field Takeoffs
- Short Field Landings
- Soft Field Takeoffs
- Soft Field Landings
- Slow Flight
- Various Stalls
- Steep Turns
- Accelerated Stalls
- Eights on Pylons
- Lazy Eights
- Chandelles
- Steep Spiral
- 180 Power Off
- Cross Country Planning
- Diversions
- Lost Procedures
- Emergency Procedures
- Any other areas as directed by instructor

HOMEWORK

- Study oral book
- Study TAA or complex aircraft handbook

STAGE 2 - LESSON 4

Dual - Local

Objective:

The student will complete a cross-country flight plan and demonstrate their ability to fly a cross-country and handle unusual situations.

GROUND

Review:

- Cross Country Flight Planning
- Filing a flight plan
- Weather planning
- Emergency Equipment & Survival Gear

FLIGHT

Review:

- Opening a Flight Plan
- Deadreckoning
- Pilotage
- VOR Navigation
- Closing a Flight Plan
- Diversion
- Calculating fuel, heading, range, and speed for a diversion.
- Engine Failure
- Emergency Descent
- System & Equipment Malfunctions
- Power-Off 180
- Any weak maneuvers

HOMEWORK

- Study oral book
- Study the aircraft handbook for the aircraft to be used for the checkride.
- Complete the new aircraft form for the aircraft to be used for the checkride.

STAGE 3 - LESSON 1

Solo - Local

Objective:

The student will practice all commercial maneuvers and procedures until they feel prepared for their checkride. They may seek additional training lessons if needed.

GROUND

Review:

- Cross Country Flight Planning
- Aircraft Systems

FLIGHT

Review:

- Cross Country Procedures
- Commercial Maneuvers
- Private Pilot Maneuvers
- Performance Takeoff & Landings
- Emergency Procedures
- Power-Off 180 Practice

HOMEWORK

- Study oral book
- Study the aircraft handbook for the aircraft to be used for the checkride.

STAGE 3 - LESSON 2

Dual - Local

Objective:

The student will practice anything their instructor would like to work on. The instructor should be able to sign off their student for their checkride at this point.

GROUND

Review:

- Weak areas

FLIGHT

Review:

- Weak areas

HOMEWORK

- Study oral book
- Study the aircraft handbook for the aircraft to be used for the checkride.

STAGE 3 - LESSON 3

Dual - Local

Objective:

The student will take a practice checkride with a designated flight instructor (normally the chief instructor).

GROUND

Evaluate:

- Pilot Documents
- Logbook Review
- Aircraft Documents
- Maintenance Logbooks
- ADs
- Flight Planning
- Pilot Qualifications
- Airworthiness Requirements
- Weather Information
- Cross Country Flight Planning
- Airspace
- Performance & Limitations
- Systems
- Human Factors
- Preflight
- Postflight
- Supplemental Oxygen
- Pressurization
- Emergency Equipment & Survival Gear
- Commercial Topics:
 - Holding Out
 - Common Carriage
 - Private Carriage
 - Part 119.1(e)

HOMEWORK

- Prepare all documents for the checkride.

FLIGHT

Evaluate:

- Use of checklists
- Cockpit Management
- Engine Start
- Taxiing
- Run-Up
- Radio Communications
- Traffic Pattern Operations
- Deadreckoning
- Pilotage
- Diversion
- Commercial Maneuvers
 - Steep Turns
 - Accelerated Stalls
 - Eights on Pylons
 - Lazy Eights
 - Chandelles
 - Steep Spiral
 - 180 Power Off
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- Steep Turns
- Power-Off Stalls
- Power-On Stalls
- Slow Flight
- Emergency Descent
- Emergency Approach & Landings
- Collision Avoidance Precautions
- Wake Turbulence Avoidance
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