



**CAE** *Oxford*

**Aviation Academy**

**FAA PRIVATE PILOT**

**TRAINING COURSE OUTLINE  
& SYLLABUS**

**REVISION: 10 APRIL 2013**

**Document Level: 3**

INTENTIONALLY LEFT BLANK

# FAA PRIVATE PILOT

# FLIGHT TRAINING SYLLABUS

**INTENTIONALLY LEFT BLANK**

## **1. OVERVIEW**

The Flight Training Syllabus contained herein meets the curriculum requirements for the flight training for the Private Pilot Certification Course contained in FAR 61. 103, 105, 109.

## **2. PREREQUISITES**

Before each student may begin the Flight Training Syllabus, they must possess a Student Pilot Certificate and at least a FAA Third Class Medical Certificate.

## **3. COMPLETION STANDARDS- GENERAL**

Students will have satisfactorily completed each stage of the Flight Training Syllabus when they have satisfactorily completed all lessons within that stage and have satisfactorily completed the Stage Check for that stage, if one is specified. Before each student may progress or begin each stage of the Flight Training Syllabus they must first have satisfactorily completed the previous stage.

Students will have satisfactorily completed the course when they have satisfactorily completed an FAA PPL practical test and the Stage Three PIC time building module.

## GRADING STANDARDS—LESSON OR STAGE CHECK

Every dual flight lesson or Stage Check will be given an overall grade by the authorized Flight Instructor, Check Instructor, or Chief Instructor. Satisfactory completion of each flight lesson will be based on the Completion Standard of that lesson and successful completion of the tasks assigned. The following Overall Grading Standards will be used for each dual lesson and Stage Check of the Flight Training Course—

- S = Satisfactory: Student performance meets the Completion Standard(s) of the lesson or the level of competency and/or proficiency specified in each task.
- U= Unsatisfactory: Student performance failed to meet the Completion Standard(s) or the level of mandatory competency or proficiency for that lesson in one or more tasks.
- I= Incomplete: One or more required tasks were not able to be accomplished during the lesson. Lesson Grade “I” will be entered with a diagonal line under the grade in the appropriate Grade Block. Tasks not accomplished during the lesson should be accomplished in the next dual lesson, and if student performance in the task(s) meets requirement(s) the previous lesson grade may be given a Satisfactory Grade. If the student performance fails to meet the required minimum standard(s) and cannot be improved during the lesson, an Unsatisfactory grade will be given for the previous lesson and Extra Training will be used as or if necessary.

## GRADING PRACTICES—REQUIRED TASKS OR ELEMENTS

Each required task or element specified in the Lesson Plan for each flight lesson or Stage Check will be given a Task Grade by the authorized Flight Instructor, Check Instructor, or Chief Instructor. Satisfactory completion of each task will be based on the Completion Standard of that lesson, successful completion of the tasks assigned, and the performance level specified for that task. Where a lesson plan specifies a task be performed to Practical Test Standard or other specified level, the student must demonstrate performance of the task to Practical Test Standard or specified level in order to receive a Satisfactory grade in that task. The following Grading Practices will be used for each task/element in each dual lesson or Stage Check of the Flight Training Course—

- **S =** Satisfactory: Student performance meets the performance standard or the level of competency and/or proficiency specified for that task.
- **U =** Unsatisfactory: Student performance failed to meet the performance standard or the level of mandatory competency or proficiency for that task.
- **D =** Demonstrate: Instructor introduction and demonstration of the task. Student performance level is not expected or specified.
- **P =** Practice: Student practices the task during the dual flight lesson to develop competency and proficiency in the task. Student performance level is not specified, however lack of student progress toward the performance standard or mandatory level of competency or proficiency should be documented. This grade is also used by solo students to identify which tasks were performed during a solo flight lesson.

## **4. GROUND TRAINING**

The PPL Ground Training will consist of three stages

- Approximately 59.5 hours including 3 stage exams.
- Stage exams must be passed with a minimum score of 80%
- After completion of the stage 3 exam the student will then take the FAA PPL Knowledge Test.
- The ground course will cover the topics found in FAR 61.105

## **5. FLIGHT TRAINING SYLLABUS STAGES**

The Flight Training Syllabus consists of the following stages:

- Stage I: TRAINING UP TO INITIAL CROSS—COUNTRY
- Stage II: PREPARATION FOR THE FAA PRIVATE PILOT AIRPLANE SINGLE ENGINE LAND PRACTICAL TEST
- Stage III: PIC TIME BUILDING

Each stage syllabus contains a description of the specific stage objectives, aircraft used and flight hours planned for that stage. Specific lesson objectives and completion standards are listed in each Lesson Plan.



## STAGE I—TRAINING UP TO INTIAL CROSS COUNTRY

### 1. STAGE ONE OBJECTIVE

Students will be introduced and develop competency and proficiency in the aviation environment (first airborne experience), basic VFR airmanship skills including stall and spin awareness and avoidance, normal and emergency procedures, normal patterns and takeoff and landing, ATC communications and operations in Class D, E, & G airspace, as well as cross country navigation and night flight.

#### FLIGHT HOURS AND AIRCRAFT USED

28 hours (DUAL)

2.1 hours (IR)

#### LESSONS

Stage I contains flight lessons 1 to 17.

### 2. STAGE ONE COMPLETION STANDARD

At the end of this stage the student will be able to:

- Perform preflight preparation procedures and checks to PTS standard
- Perform normal takeoffs and landings to PTS standard
- Perform normal traffic patterns to PTS standard
- Perform normal procedures to PTS standard
- Understand and comply with ATC communications for local flights
- Achieve adequate competency and proficiency with certain failures, such as engine failure while in the pattern, radio communication failure and complete electrical failure.
- Reach satisfactory proficiency and safety on the maneuvers and procedures required by FAR 61.87 (c) (2).
- Successfully plan and execute cross country navigation
- Perform safe night flight, including night cross country navigation
- Successfully handle in-flight diversion

Students will have satisfactorily completed Stage One the Flight Training Syllabus when they have completed a Pre-Solo Cross Country Stage Check. Prior to taking the Pre—solo Stage Check, the student must have completed a pre—solo written examination with a minimum passing score of 70%, corrected to 100% by the authorized instructor. If the student fails to make 70% on the first test, he/she shall take a another pre—solo written exam, minium passing score 70% score, corrected to 100% by the authorized instructor.

#### AIRCRAFT ATTITUDE REFERENCE CODES

VR = Flight by Visual Reference

IR = Flight by Instrument Reference

**STAGE ONE- LESSON 1**

1.0 hr dual

**A. Objectives:**

- Introduce student to the aviation environment.
- Obtain Standard WX Brief with instructor assistance.
- Familiarize student with facilities, ramp and aircraft.
- Introduce pre-flight procedures.
- Learn about the functions of the flight controls and how they are used to maintain specific attitudes.
- Introduce Standard WX Briefing
- Introduce collision avoidance.

Content:

**I. Introduce/Demonstrate**

- (a) Pre lesson briefing; positive control and exchange of flight controls
- (b) Pre-Flight Preparation, Weather, NOTAMS and Temporary Flight Restrictions (TFRs)
- (c) Weight & Balance
- (d) Performance Planning
- (e) Preflight visual inspection & aircraft servicing
- (f) Use of checklists
- (g) Engine start, ground operations & runup
- (h) ATC communications
- (i) Airport surface operation & taxiing
- (j) Takeoff, climb & departure (VR)
- (k) Level offs, straight & level, level medium bank turns (VR)
- (l) Local area familiarization, collision avoidance
- (m) Constant airspeed descents (VR)
- (n) Traffic pattern entry
- (o) Normal landing
- (p) Aircraft parking and securing; postflight procedures

**II. Review/Practice**

- (a) None

**III. Post flight critique/grading & next lesson preview**

**B. Completion Standards-**

- Student develops basic understanding of pre-flight preparation.
- Student becomes familiar with the control systems and how they are used to maneuver the airplane on the ground and in the air.
- Student learns engine start, directional control during taxi, runup, takeoff, shutdown and post-flight procedures.
- Student develops fundamental understanding of Standard WX briefing as well as collision avoidance.

## STAGE ONE- LESSON 2

1.5 hrs dual

### A. Objectives:

Review Lesson One.

Student practices straight & level flight with acceleration and deceleration, turns (medium and steep bank), climbs, descents.

Student is introduced to use of and effects of flaps.

Student is introduced to effects of wind and windshear

Student is introduced to Single-Pilot Resource Management (SRM)

#### Content:

##### **I. Introduce/Demonstrate**

(a) Control & Performance concepts

(b) Straight & level flight at airwork & pattern speeds to include Flaps Cruise, TO, & LDG configurations (VR)

(c) Effects of wind and windshear

(d) Introduction to Single-Pilot Resource Management (SRM); including ADM, Risk management, Task management, Situational awareness, CFIT, and Automation management

(e) Aviation Security

##### **II. Review/Practice**

(a) All tasks from Lesson One

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards-

Display increased proficiency in pre-flight activities.

Maintain direction control during take off.

Divide attention between cockpit and outside environment.

Develop basic understanding of Control & Performance.

Demonstrate basic knowledge of weather briefings, weight & balance, performance planning.

## STAGE ONE- LESSON 3

1.5 hrs dual

### A. Objectives:

- Obtain Standard WX Brief without instructor assistance.
- Review airspeed control during basic maneuvers and traffic pattern operations.
- Practice radio calls.
- Introduce steep bank turns.
- Introduce slow flight and stalls, including stalls with 20 degrees of bank.
- Introduce spin awareness.
- Participate in landing the aircraft.
- Introduce go -arounds from rejected landings.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) Steep bank turns (45°, VR)
- (b) Maneuvering during slow flight (VR)
- (c) Power off stalls (imminent & full stall, VR)
- (d) Power on stalls (imminent, VR)
- (e) Approach and landing stalls (imminent, VR)
- (f) Spin awareness & avoidance (VR)
- (g) Go around/rejected landing

##### **II. Review/Practice**

- (a) All tasks from Lessons One & Two

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards-

- Perform unassisted takeoff.
- Display increased proficiency in coordinated flight, to maintain heading and altitude control.
- Demonstrate correct radio calls.
- Demonstrate ability to obtain weather information.
- Preliminary understanding of stalls and spin avoidance
- Preliminary understanding and decision making in go -arounds from rejected landings.

## STAGE ONE- LESSON 4

1.5 hrs dual

### A. Objectives:

Practice basic flight including speed and configuration changes.  
30 degree bank turns, climbs and descents.  
Practice stalls and spin avoidance  
Review pattern procedures.  
Introduce cross wind correction in pattern operations.  
Practice normal and crosswind takeoffs and landings.  
Practice go around procedures.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) Effects of cross wind on patterns & landings
- (b) Normal patterns (closed traffic)

##### **II. Review/Practice**

- (a) Steep bank turns (45°, VR)
- (b) Maneuvering during slow flight (VR)
- (c) Power off stalls (imminent & full stall, VR)
- (d) Power on stalls (imminent, VR)
- (e) Approach and landing stalls (imminent, VR)
- (f) Spin awareness & avoidance (VR)
- (g) Go around/rejected landing
- (h) ATC communications

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards–

Basic understanding of weather brief, radio calls.  
Proficiency with straight and level speed and configuration changes.  
Increased proficiency in stall recognition, recovery and spin avoidance.  
Demonstrate correct communications and traffic pattern procedures.  
Landings accomplished with instructor assistance.  
Demonstrate proper go around procedures.  
Demonstrate basic understanding of wind compensation.  
Improved recognition of go around situations and rejected landings.

**STAGE ONE- LESSON 5**

1.5 hrs dual

**A. Objectives:**

Introduce side slips and forward slips to landing (practice area).

Practice basic flight (turns, climbs, descents including airspeed and configuration changes).

Introduce slips to landing in the pattern.

Practice stalls and stall recovery.

Practice pattern entries and landings, including crosswind and slips to a landing.

Introduce wake turbulence avoidance

Content:**I. Introduce/Demonstrate**

- (a) Side slips (practice area)
- (b) Forward slips to landing (practice area)
- (c) Forward slips to landing (pattern)
- (d) Use of side slips for cross wind compensation
- (e) Wake turbulence avoidance

**II. Review/Practice**

- (a) Steep bank turns (45°, VR)
- (b) Maneuvering during slow flight (VR)
- (c) Power on stalls (imminent, VR)
- (d) Approach and landing stalls (imminent, VR)
- (e) Spin awareness & avoidance (VR)
- (f) Go around/rejected landing
- (g) Effects of cross wind on patterns & landings
- (h) ATC communications

**III. Post flight critique/grading & next lesson preview****B. Completion Standards-**

Perform all normal flows and checklists unassisted.

Increased proficiency in stall recognition, recovery and spin avoidance.

Landings completed with reduced instructor assistance.

## STAGE ONE- LESSON 6

1.5 hrs dual

### A. Objectives:

Introduce and demonstrate ground reference maneuvers including rectangular patterns, turns around a point and s-turns, with proper wind correction.

#### Content:

##### **I. Introduce/Demonstrate**

(a) Ground reference maneuvers

Rectangular pattern, turns around a point, S-turns along a road

(b) Wire strike avoidance

##### **II. Review/Practice**

(a) Forward slips to landing (practice area)

(b) Forward slips to landing (pattern)

(c) Steep bank turns (45°, VR)

(d) Maneuvering during slow flight (VR)

(e) Power on stalls (imminent, VR)

(f) Approach and landing stalls (imminent, VR)

(g) Effects of cross wind on patterns & landings

(h) Use of side slips for cross wind compensation

(i) Wake turbulence avoidance

(j) ATC communications

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards-

Demonstrate ability to hold altitude + / - 200 feet and heading within + / - 20 degrees and airspeed within + / - 15 knots in tasks (a) - (e).

Preliminary understanding of ground reference maneuvers with wind correction.

Increased level of proficiency with takeoffs / landings.

**STAGE ONE- LESSON 7**

1.5 hrs dual

**A. Objectives:**

Practice ground reference maneuvers.

Pattern practice including crosswind and slips to a landing.

Introduce Runway Incursion Prevention and Avoidance

Content:**I. Introduce/Demonstrate**

- (a) Runway Incursion Prevention and Avoidance.
- (b) Land and Hold Short Operations (LAHSO)
- (c) System and equipment failures—trim failure, low or zero oil pressure, low or zero fuel pressure, loss of airspeed
- (d) Simulated engine fire on ground or in air, electrical fire in air
- (e) Navigation to and from KIWA or KCHD

**II. Review/Practice**

- (a) Ground reference maneuvers
  - Rectangular pattern, turns around a point
- (b) Forward slips to landing (pattern)
- (c) Steep bank turns (45°, VR)
- (d) Patterns (closed traffic)
- (e) Takeoffs and landings
- (f) Go arounds/rejected landings
- (g) Effects of cross wind on patterns & landings
- (h) Use of side slips for cross wind compensation
- (i) ATC communications

**III. Post flight critique/grading & next lesson preview****B. Completion Standards–**

Demonstrate competence navigating to/from departure airport executing proper pattern procedures, including all radio calls.

Demonstrate basic skill in turns around a point.

Demonstrate basic skill in side slips.

Takeoffs, landings and go –arounds should be performed with decreasing instructor input.

Increased ability to demonstrate proper recovery techniques for landing deficiencies (porpoising, bounced landing, etc.)

Demonstrate ability to recognize the need for and ability to execute proper go-around/rejected landing

Demonstrate basic skill in emergency procedures



**A. Objectives:**

Prior to flight administer and grade the Pre-Solo written exam.

Student practices rectangular patterns.

Demonstrate and practice simulated electrical failures, engine failure and proper procedures, loss of communication and light signals.

Practice landings including cross-wind and slips to landing.

Content:

**I. Introduce/Demonstrate**

- (a) Pre-solo aeronautical knowledge test
- (b) Simulated electrical systems malfunctions & failure
- (c) Simulated engine failure & forced landing
- (d) Loss of communication
- (e) Light signals

**II. Review/Practice**

- (a) Ground reference maneuvers
  - Rectangular pattern
- (b) Patterns (closed traffic)
- (c) Takeoffs and landings
- (d) Go arounds/rejected landings
- (e) Effects of cross wind on patterns & landings
- (f) Wake turbulence avoidance
- (g) ATC communications

**III. Post flight critique/grading & next lesson preview**

**B. Completion Standards-**

Student exhibits situational awareness including wake turbulence avoidance, crosswind technique, and collision avoidance methods.

Student exhibits increased understanding of airspace and radio phraseology.

Student is able to comply with unusual pattern entries and ATC instructions.

Student performs rectangular pattern to within +/-150 feet, +/-15 kts.

Student able to perform landings with decreasing assistance.

Basic understanding of electrical and/or engine failure and appropriate procedures.

## STAGE ONE- LESSON 9

1.5 hrs dual

### A. Objectives:

Review slow flight, power on and power off stalls.

Review incipient spin awareness techniques.

Practice simulated engine failure and emergency approach and landing.

Practice go-arounds from flaps landing configuration, normal landings, slips to a landing and crosswind landing techniques.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) Short field take off/landing and land and hold short operations (LAHSO)
- (b) Soft field take off/landing
- (c) Full stop taxi back procedures

##### **II. Review/Practice**

- (a) Maneuvering during slow flight (VR)
- (b) Power on stalls (imminent, VR)
- (c) Approach and landing stalls (imminent, VR)
- (d) Spin awareness & avoidance (VR)
- (e) Simulated electrical systems malfunctions & failure
- (f) Simulated engine failure & forced landing
- (g) Loss of communication
- (h) Patterns (closed traffic)
- (i) Takeoffs and landings
- (j) Go arounds/rejected landings
- (k) Effects of cross wind on patterns & landings
- (l) Wake turbulence avoidance
- (m) ATC communications

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards–

Basic proficiency in stall recognition, recovery and spin avoidance.

Student performs all checklists competently.

Basic understanding of planning required to execute emergency approach and landing.

Student maintains appropriate order of recovery from full flap go around while offsetting (if necessary) or otherwise maintaining RWY centerline on go -arounds.

Student performs all landings on centerline and in touchdown zone (-500ft /+1000 ft) with minimal instructor input.

## STAGE ONE- LESSON 10

1.5 hrs dual

### A. Objectives:

Stage One Progress Evaluation

Evaluate student's knowledge of aircraft systems, airspace, weather, performance planning, airport signage, etc.

Evaluate basic airwork and airmanship skills.

Evaluate student Aeronautical Decision Making capabilities.

Evaluate student ability to conduct airport surface operations, normal takeoffs, pattern operations and landing in preparation for solo.

Evaluate student ability to perform emergency procedures.

Evaluate student ability to communicate with ATC and operate at airports with control towers.

Provide feedback to student and instructor on area which need improvement

#### Content:

##### **I. Introduce/Demonstrate**

(a) None

##### **II. Review/Practice**

(a) Navigation to and from practice area

(b) Maneuvering during slow flight (VR)

(c) Power on stalls (imminent, VR)

(d) Approach and landing stalls (imminent, VR)

(e) Engine failure/forced landing

(f) Patterns (closed traffic)

(g) Takeoffs and landings

(h) Go arounds/rejected landings

(i) Effects of cross wind on patterns & landings

(j) Wake turbulence avoidance

(k) ATC communications

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards–

Student demonstrates performance to PTS standard in the following Critical Skill areas:

Stalls and stall recovery; steep turns.

Student will demonstrate safe and effective aeronautical decision making in all phases of flight.

Student will exhibit constant vigilance and collision avoidance precautions.

Student will be able to deal with realistic distractions.

Student must explain proper spin avoidance and recovery procedures.

Student will demonstrate overall competency and proficiency in the Areas of Operation specified in FAR 61.107.

**STAGE ONE- LESSON 11**

2.5 hrs dual

2.5 hrs XC

**A. Objectives:**

Introduce student to cross country VFR navigation; use of sectional charts, navigation log, FAA flight plan, weather briefing and ATC services.

Introduce VFR radio navigation.

Discuss potential need for diversion.

Practice short field takeoffs and landings.

Content:

**I. Introduce/Demonstrate**

(a) Navigation planning

Course to fly, performance, fuel requirements, top of climb, point of descent, special use airspace awareness & weather data

(b) FAA Flight Plan

Documenting, filing, activating, amending & closing

(c) Aeronautical charts and information

Sectional and VFR Terminal Charts and Airport/Facility Directory, NOTAMS

(d) Enroute communications

FSS, FSS remote, Flight Watch

(e) Aeronautical Decision Making

Diversion due to weather, fuel state, equipment malfunctions

(f) Use of radio aids for navigation

(g) Pilotage and dead reckoning navigation (VR)

(h) Loss of positional awareness

ATC and FSS services; Aeronautical Information Manual procedures

(i) Engine leaning and management; descent planning

**II. Review/Practice**

(a) Weight & Balance and Performance Data

(b) ATC communications

(c) Takeoff, climb & departure (VR)

(d) Traffic pattern entry

**III. Post flight critique/grading & next lesson preview**

**B. Completion Standards–**

Student will develop understanding of proper pre-flight planning including selection of route and checkpoints, preparation of VFR navigation log, flight plan form, and weather analysis.

Develop Aeronautical Decision Making in recognizing situations requiring a diversion and necessary actions to perform a diversion.

Develop knowledge of use of radio navigational aids.

## STAGE ONE- LESSON 12

- 2.5 hrs dual
- 2.5 hrs XC
- 0.3 hrs dual IR

### A. Objectives:

Student achieves increased competency in cross country flight operations to include navigation planning, VFR navigation, radio aids to navigation, services available to pilots, aeronautical decision making and operation at unfamiliar airports.

Student increases proficiency in short and soft field takeoffs and landings. Student is introduced to basic instrument flying.

Route: must be to an approved airport or airports more than 50 nm from departure airport.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) Basic instruments- Control & Performance
- (b) Straight & Level (IR)
- (c) Climbing and descending turns (IR)
- (d) Turns to assigned headings (IR)

##### **II. Review/Practice**

- (a) All tasks from Lesson 11
- (b) Short and soft field takeoffs and landings

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards-

Student demonstrates increased proficiency in short and soft field takeoffs and landings.

Student demonstrates improved ability to plan VFR cross country flights.

Student demonstrates improved Aeronautical Decision Making- learns to recognize developing critical situations.

Student demonstrates improved ability to use enroute services to pilots.

Student demonstrate improved ability to navigate using pilotage and dead reckoning.

Student develops initial skill in basic attitude instrument flying and turn to headings by sole reference to instruments.

Student demonstrates increased ability to use radio aids for navigation.

Student completes cross country flight of greater than 100 nm total distance.

**STAGE TWO- LESSON 13**

1.0 hrs dual night

**A. Objectives:**

Night local area training to include at least 3 night traffic patterns, takeoffs and landings to a full stop.

Introduce the special operational considerations associated with night flight—including emergency situations and procedures.

Introduce Controlled Flight Into Terrain avoidance and prevention.

**Content:****I. Introduce/Demonstrate**

- (a) Night operations
- (b) Night orientation and visual effects
- (c) CFIT avoidance and prevention
- (d) Physiology and aeromedical factors of night flight

**II. Review/Practice**

- (a) Patterns (closed traffic)
- (b) Takeoffs and landings (full stop taxi back)
- (c) Go arounds/rejected landings
- (d) Effects of cross wind on patterns & landings
- (e) ATC communications

**III. Post flight critique/grading & next lesson****B. Completion Standards–**

Student develops an understanding of special pre-flight considerations and cockpit management necessary to conduct night flight.

Student develops an understanding of the situation and positional awareness, orientation, terrain and obstacle avoidance, and the limitations of vision and aeromedical factors associated with night flight.

Student completes at least 6 takeoffs and landings to a full stop each with a flight in a traffic pattern at an airport.

## STAGE ONE- LESSON 14

1.5 hrs dual night  
.5 hrs IR

### A. Objectives:

Night local area training to include at least 6 night traffic patterns, takeoffs and landings to a full stop.

Introduce the special operational considerations associated with night flight—including emergency situations and procedures.

Introduce Controlled Flight Into Terrain avoidance and prevention.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) Night operations
- (b) Night orientation and visual effects
- (c) CFIT avoidance and prevention
- (d) Physiology and aeromedical factors of night flight

##### **II. Review/Practice**

- (a) Patterns (closed traffic)
- (b) Takeoffs and landings (full stop taxi back)
- (c) Go arounds/rejected landings
- (d) Effects of cross wind on patterns & landings
- (e) ATC communications

##### **III. Post flight critique/grading & next lesson**

### B. Completion Standards–

Student develops an understanding of special pre-flight considerations and cockpit management necessary to conduct night flight.

Student develops an understanding of the situation and positional awareness, orientation, terrain and obstacle avoidance, and the limitations of vision and aeromedical factors associated with night flight.

Student completes at least 6 takeoffs and landings to a full stop each with a flight in a traffic pattern at an airport.

**STAGE ONE- LESSON 15**

2.5 hrs dual night

2.5 hrs XC

.5 hrs IR

**A. Objectives:**

Night cross country flight of more than 100 NM total distance.

Introduce the special operational considerations associated with night flight— including emergency situations and procedures.

Practice cross country navigation at night.

Continued practice with radio navigation aids.

Content:

**I. Introduce/Demonstrate**

- (a) Night VFR navigation and flight not in vicinity of airport
- (b) Visual effects at night including effects of terrain, loss of horizon
- (c) Night country flight of more than 100 NM total distance

**II. Review/Practice**

- (a) All tasks from Lesson 14
- (b) Electrical system failures and malfunctions

**III. Post flight critique/grading & next lesson preview**

**B. Completion Standards—**

Student exhibits increased understanding of sectionals, navigation log, flight plan form, standard WX Briefing and use of DUATS.

Student understands pilotage, dead-reckoning, and use of radio navigation equipment to safely conduct night cross country flight.

Student understands special considerations of night diversions.

Student develops increased comprehension of impact of electrical system malfunctions and failures at night.

Student increases proficiency in NAVAID usage.

Student completes a night cross country flight more than 100 NM total distance.



## STAGE ONE- LESSON 16

1.5 hrs dual

0.5 hrs dual IR

### A. Objectives:

Continued student practice of VFR cross country flight including lost procedures, diversions and simulated emergency procedures.

Practice short and soft field takeoffs and landings.

Introduce basic instrument flight critical/unusual attitude recoveries.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) Basic instruments- recovery from critical/unusual attitudes (IR)

##### **II. Review/Practice**

- (a) All tasks from Lesson 12
- (b) Short and soft field takeoffs and landings

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards-

Student demonstrates performance to PTS standard in the following Critical Skill areas:

VFR cross country flight planning, plotting course to fly, determining time enroute and fuel requirements.

Airspace awareness & weather data.

Use of Sectional and VFR Terminal Aeronautical Charts

VOR orientation, direct to navigation, and GPS "Direct to" functions

Communications with Flight Service Station, Flight Watch and Air Traffic Control

"Lost" procedures, obtaining ATC assistance.

Electrical and engine failures while enroute.

Student demonstrates increased proficiency in short and soft field takeoffs and landings.

Student demonstrates improved Aeronautical Decision Making- learns to recognize developing critical situations.

Student receives Solo Cross Country Student Pilot Certificate and Logbook Endorsements from the instructor in accordance with FAR 61.93(c)(1)&(2) BEFORE LESSON 17.

**STAGE ONE- LESSON 17**

2.0 hrs dual

.3 hrs IR

**A. Objectives:**

Stage One Check: pre-solo cross country.

Evaluate student's level of competency and proficiency to conduct solo cross country flight.

Routing will be given by the check instructor 24 hours prior to flight.

Content:**I. Introduce/Demonstrate**

(a) None

**II. Review/Practice**

(a) Navigation planning

Course to fly, performance, fuel requirements, top of climb, point of descent, airspace awareness & weather data

(b) Weight &amp; Balance &amp; Performance Data

(c) FAA Flight Plan

Documenting, filing, opening & closing

(d) Use of aeronautical charts and information

Sectional and VFR Terminal Charts and Airport/Facility Directory, NOTAMS

(e) Enroute communications

FSS, FSS remote, Flight Watch

(f) Aeronautical Decision Making

Diversions due to weather, fuel state, or equipment malfunctions

(g) Use of radio aids for navigation

(h) Pilotage navigation (VR)

(i) Loss of positional awareness

ATC and FSS services; Aeronautical Information Manual procedures

(j) ATC communications

(k) Traffic pattern entry

(l) Engine leaning and descent management

**III. Post flight critique/grading & next lesson preview****B. Completion Standards–**

Student demonstrates adequate competency and proficiency in the tasks specified above.

Student is able to activate, amend, and close flight plan.

Student demonstrates good situational awareness and sound Aeronautical Decision Making throughout the flight.

Student manages engine leaning, descent planning and diversions competently.

Student identifies all checkpoints and maintains altitude +/- 100 ft, headings +/- 10 deg airspeed +/- 10 kts, and arrives at checkpoints +/- 3 minutes.

Student will demonstrate overall competency and proficiency in the Areas of Operation specified in FAR 61.107 b(1).

## STAGE II—UP TO THE FAA PRIVATE PILOT PRACTICAL TEST

### 1. STAGE TWO OBJECTIVE

Students will complete required solo cross—country VFR navigation flights, and will review and practice maneuvers and tasks in preparation for the FAA Private Pilot Airplane Practical Test.

#### FLIGHT HOURS AND AIRCRAFT USED

7.0 hours DUAL

13.0 hours SOLO

.9 hours IR

DA20

#### LESSONS

Stage II contains flight lesson 18 to 28. Lesson 28 is the Stage Check prior to the FAA Private Pilot Airplane Practical Test. Lesson 29 is the FAA Private Pilot Airplane Practical Test.

### 2. STAGE THREE COMPLETION STANDARD

At the end this stage the student will be able to:

- Conduct solo VFR cross country flights
- Fly basic maneuvers by sole reference to instruments to PTS standard
- Satisfactorily demonstrate that they can exercise the privileges of a Private Pilot Airplane
- Demonstrate Aeronautical Decision Making capability

Students will have completed Stage Two of the Flight Training Syllabus when they have satisfactorily completed a Stage Check.

#### AIRCRAFT ATTITUDE REFERENCE CODES

VR = Flight by Visual Reference

IR = Flight by Instrument Reference

**STAGE TWO- LESSON 18**

.5 hrs dual  
1.0 hrs solo

**A. Objectives:**

Dual and Solo Patterns, Full Stop/Taxi Back.  
Perform takeoff and landing practice with the student to determine readiness for solo flight.  
First student supervised solo flight.

Content:

**I. Introduce/Demonstrate**

(a) None.

**II. Review/Practice**

- (a) Patterns (closed traffic)
- (b) Takeoffs and landings (full stop taxi back)
- (c) Go arounds/rejected landings
- (d) Effects of cross wind on patterns & landings
- (e) ATC communications

**III. Post flight critique/grading & next lesson**

**B. Completion Standards-**

Student demonstrates a good understanding of local airport and airspace rules.  
Student demonstrates competency and proficiency in engine failure and equipment Malfunctions.  
Demonstrates confidence and deemed ready for solo flight.  
Student receives Student Pilot Certificate and Logbook Endorsements from the instructor in accordance with FAR 61.87(n)(1)&(2) BEFORE FIRST SOLO FLIGHT.  
Student safely performs 3 full stop solo landings under supervision of instructor.

## STAGE TWO- LESSON 19

.5 hrs dual

1.0 hrs solo

### A. Objectives:

Dual and Solo Patters, Full Stop/Taxi Back.

During the dual portion of the lesson the instructor will check student readiness to perform solo flight. Instructor then conducts a second supervised solo of the student.

#### Content:

##### **I. Introduce/Demonstrate**

(a) None.

##### **II. Review/Practice**

(a) Patterns (closed traffic)

(b) Takeoffs and landings (full stop taxi back)

(c) Go arounds/rejected landings

(d) Effects of cross wind on patterns & landings

(e) ATC communications

##### **III. Post flight critique/grading & next lesson**

### B. Completion Standards-

Minimum of 3 solo full stop taxi-back landings with the outcome and safety of the flight never in question.

## STAGE TWO- LESSON 20

1.5 hrs solo

### A. Objectives:

Increase student proficiency and skills in preparation for the FAA Private Pilot Airplane Practical Test through solo practice.

#### Content:

##### I. Introduce/Demonstrate

None

##### II. Review/Practice

(a) Short and soft field takeoffs and landings (VR)

(b) Power and power off stalls (Imminent stall)

(c) Steep Turns

(d) Ground reference maneuvers

Rectangular courses, turns around a point

(e) Maneuvering in slow flight

### B. Completion Standards-

Student gains increased proficiency in all tasks.

## STAGE TWO- LESSON 21

2.0 hrs solo

### A. Objectives:

Increase student proficiency and skills in preparation for the FAA Private Pilot Airplane Practical Test through solo practice.

#### Content:

##### I. Introduce/Demonstrate

None

##### II. Review/Practice

(a) All tasks in Lesson 20

(b) Normal and Flaps Cruise (up) landings

### B. Completion Standards-

Student gains increased proficiency in all tasks.

## STAGE TWO- LESSON 22

1.5 hrs dual

0.2 hours IR

### A. Objectives:

Preparation for the FAA Private Pilot Airplane Practical Test.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) Instructor briefing on preparation requirements for Private Pilot Airplane Practical Test

##### **II. Review/Practice**

- (a) Steep turns (VR)
- (b) Ground reference maneuvers (VR)
  - Rectangular pattern, turns around a point, S-turns along a road
- (c) Basic instruments- Control & Performance
- (d) Straight & Level (IR)
- (e) Climbing and descending turns (IR)
- (f) Turns to assigned headings (IR)
- (g) Critical/unusual attitude recoveries
- (h) Use of radio aids to navigation (VR, IR)
- (i) VFR navigation
  - Use of aeronautical charts, AF/D, Notams, dead reckoning, pilotage
- (j) Go arounds/rejected landings
- (k) Aeronautical Decision Making

##### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards-

Student demonstrates increased proficiency in all tasks.

## STAGE TWO- LESSON 23

2.5 hrs XC solo

### A. Objectives:

Student conducts solo cross country flight – day VFR to an airport more than 50 nm from departure airport.

Route: KFFZ-KAVQ-KRYN-KFFZ

Alternate Route may be required; must be approved by Chief Instructor

NOTE: STUDENT MUST BE ENDORSED IAW FAR 61.93( c )(2)(ii) BY AN AUTHORIZED INSTRUCTOR

#### Content:

#### I. Introduce/Demonstrate

(a) None

#### II. Review/Practice

(a) Weight & Balance & Performance Data

(b) Basic VFR maneuvers in practice area

(c) Use of aeronautical charts and information

Sectional and VFR Terminal Charts and Airport/Facility Directory, NOTAMS

(d) Navigation to and from practice area

(e) ATC communications

(f) Traffic pattern entry

### B. Completion Standards-

Student demonstrates accurate planning and conduct of cross country flight.

Student activates and closes flight plan.

Student obtains standard weather briefing prior to flight and utilizes services of Flight Watch enroute for updated conditions.

Student maintains navigation log.



## A. Objectives:

Student safely conducts solo cross country flight IAW FAR 61.109 (a)4 - day VFR (150 nm total distance with landings at 3 points; one straight line segment more than 50 nm).

Route: KFFZ-E25-E63-KFFZ

Alternate Route may be required; must be approved by Chief Instructor

NOTE: STUDENT MUST BE ENDORSED IAW FAR 61.93(c)(2)(ii) BY AN AUTHORIZED INSTRUCTOR

### Content:

#### I. Introduce/Demonstrate

(a) None

#### II. Review/Practice

(a) All tasks of Lesson 23

## B. Completion Standards-

Student demonstrates accurate planning and conduct of cross country flight.

Student activates and closes flight plan, is able to use flight following if necessary.

Student obtains standard weather briefing prior to flight and utilizes services of Flight Watch enroute for updated conditions.

Student maintains navigation log.

## STAGE TWO- LESSON 25

2.0 hrs solo

### A. Objectives:

Increase student proficiency and skills in preparation for the FAA Private Pilot Airplane Practical Test through solo practice.

#### Content:

- I. **Introduce/Demonstrate**  
None
- II. **Review/Practice**  
(a) All tasks in Lessons 20

### B. Completion Standards-

Student gains increased proficiency in all tasks.

**A. Objectives:**

Preparation for the FAA Private Pilot Airplane Practical Test.

Content:

**I. Introduce/Demonstrate**

None

**II. Review/Practice**

- (a) Short and soft field takeoffs and landings (VR)
- (b) Power and power off stalls (IR)
- (c) Spin awareness, avoidance, incipient spin prevention
- (d) Basic instruments- Control & Performance
- (e) Straight & Level (IR)
- (f) Climbing and descending turns (IR)
- (g) Turns to assigned headings (IR)
- (h) Critical/unusual attitude recoveries

**III. Post flight critique/grading & next lesson preview**

**B. Completion Standards-**

Student demonstrates increased proficiency in all tasks.

**STAGE TWO- LESSON 27**

1.5 hrs dual

0.2 hrs IR

**A. Objectives:**

Final FAA Private Pilot Airplane Practical Test preparation.

Content:

**I. Introduce/Demonstrate**

- (a) Instructor verifies all documentation is complete and accurate.

**II. Review/Practice**

- (a) Short and soft field takeoffs and landings (VR)
- (b) Power on and power off stalls (Full and Imminent stall, VR)
- (c) Steep Turns (VR)
- (d) Ground reference maneuvers
  - Rectangular courses, turns around a point
- (e) Maneuvering in slow flight (VR)
- (f) Basic Instrument maneuvers (IR)
- (g) VFR navigation
  - Pilotage, dead reckoning, use of radio aids to navigation, diversion, lost procedures
- (h) Go arounds & rejected landings
- (i) Aeronautical Decision Making
- (j) Emergency operations
  - Engine failure, forced landing, systems and equipment failures
- (k) Post flight procedures

**III. Post flight critique/grading & next lesson preview**

**B. Completion Standards-**

Student must perform all tasks to PTS standard for the Private Pilot Airplane Practical Test.

## STAGE TWO- LESSON 28

1.5 hrs dual

.2 hrs IR

### A. Objectives:

Stage Check.

#### Content:

#### **I. Introduce/Demonstrate**

(a) None

#### **II. Review/Practice**

(a) Federal Aviation Regulations Part 61, 91; NTSB Part 830

(b) Aeronautical Information Manual

(c) Preflight Preparation

Weather data, performance data, weight & balance, NOTAMS

(d) Use of checklists

(e) Airport surface operations

(f) Short and soft field takeoffs and landings (VR)

(g) Normal take offs and landing

(h) Power and power off stalls (IR)

(i) Ground reference maneuvers (VR)

Rectangular pattern, turns around a point, S-turns along a road

(j) Basic instrument maneuvers (IR)

(k) Power on and power off stalls (Full and Imminent stall, VR)

(l) Steep Turns (VR)

(m) Maneuvering in slow flight (VR)

(n) VFR navigation

Pilotage, dead reckoning, use of aeronautical charts and information, use of radio aids to navigation, diversion, lost procedures

(o) Aeronautical decision making

(p) Go arounds and rejected landings

(q) Emergency operations

Engine failure, forced landing, systems and equipment failures

(r) Post flight procedures

#### **III. Post flight critique/grading & next lesson preview**

### B. Completion Standards-

All tasks must be performed to PTS standard for the Private Pilot Airplane Practical Test.

Upon satisfactory completion of Lesson 29, the student will be scheduled for the Private Pilot Airplane Practical Test.

Upon satisfactory completion of Lesson 29, the endorsing instructor will supervise documentation of and sign the students FAA Form 8710 Application For Airman Certificate.

## **STAGE TWO- LESSON 29**

2.0 hrs PIC

### **A. Objectives:**

FAA Private Pilot Airplane Practical Test.

#### Content:

##### **I. Introduce/Demonstrate**

- (a) None

##### **II. PTS Areas of Operation**

- (I.) Preflight Preparation
- (II.) Preflight Procedures
- (III.) Airport Operations
- (IV.) Takeoffs, Landings and Go-Arounds
- (V.) Performance Maneuver
- (VI.) Ground Reference Maneuvers
- (VII.) Navigation
- (VIII.) Slow Flight and Stalls
- (IX.) Basic Instrument Maneuvers
- (X.) Emergency Operations
- (XII.) Postflight Operations

##### **III. Post flight critique/grading**

### **B. Completion Standards-**

Student must perform all tasks to PTS standard for the Private Pilot Certificate Airplane Single Engine Land Rating Practical Test.

Upon successful completion of the Practical Test the student will be issued a Private Pilot Certificate with an Airplane Single Engine Land Rating.

## STAGE III—PIC TIME BUILDING MODULE

### 1. STAGE III OBJECTIVE

This stage is a mandatory PIC flying module that is integrated into the normal course schedule starting after successful completion of Stage II/Lesson 29.

Stage III consists of repeated PIC time building missions to reach the minimums listed below. Flights may be conducted solo or with instructor supervision.

#### FLIGHT HOURS

As required to reach 150 total hours

100 hours PIC

50 hours XC (PIC)

1.5 hours SOLO NIGHT (5 Solo Takeoffs and Full Stop Landings)

#### LESSONS

Stage III contains as many lesson as required to reach the minimums listed above.

### 2. STAGE III COMPLETION STANDARD

Students will have completed Stage III when they have reached 150 total hours in the course including 100 hours PIC; 50 hours X/C PIC; 5 solo takeoffs and full stop landings at night. No Stage Check is required in this stage.

## STAGE THREE- LESSON A-1

1.5 hrs night

0.5 hrs dual

1.0 hrs solo

### A. Objectives:

Student conducts solo night patterns. A minimum of 5 takeoffs and landings to a full stop must be performed.

#### Content:

##### **I. Introduce/Demonstrate**

(a) None

##### **II. Review/Practice**

(a) Night operations

(b) Patterns (closed traffic)

(c) Takeoff and landing (full stop & taxi back)

(d) ATC communications

##### **III. Post flight critique/grading**

### B. Completion Standards-

Student completes at least 5 takeoffs and landings to a full stop each with a flight in a traffic pattern at an airport.



## STAGE THREE- LESSON A-2

5.0 hrs PIC XC

### A. Objectives:

Student safely conducts solo cross country flight – day VFR  
(300 nm total distance with full stop landings at 2 intermediate airports; completed in a single day).

#### Content:

##### **I. Introduce/Demonstrate**

- (a) None

##### **II. Review/Practice**

- (a) a) Navigation planning  
Course to fly, performance, fuel requirements, top of climb, point of descent, airspace awareness & weather data
- (b) Weight & Balance & Performance Data
- (c) FAA Flight Plan  
Documenting, filing, opening & closing
- (d) Use of aeronautical charts and information  
Sectional and VFR Terminal Charts and Airport/Facility Directory, NOTAMS
- (e) Enroute communications  
FSS, FSS remote, Flight Watch
- (f) Use of radio aids for navigation
- (g) Pilotage navigation (VR)
- (h) Use of radio aids to navigation (VOR, GPS)
- (i) ATC communications
- (j) Traffic pattern entry

##### **III. Post flight critique/grading**

### B. Completion Standards-

Student demonstrates accurate planning and conduct of cross country flight.  
Student activates and closes flight plan, is able to use flight following if necessary.  
Student obtains standard weather briefing prior to flight and utilizes services of Flight Watch enroute for updated conditions.  
Student maintains navigation log.

## STAGE THREE – LESSONS A-3 THRU END

Lessons A-3 thru end 2.5 hrs PIC XC

### A. Objectives:

Student conducts PIC cross country flight – day VFR more than 50 nm from departure airports.

Route: As determined by student, assigned instructor or Duty Instructor

Airports: from approved list only

#### Content:

##### I. Introduce/Demonstrate

(a) None

##### II. Review/Practice

(a) Navigation planning

Course to fly, performance, fuel requirements, top of climb, point of descent, airspace awareness & weather data

(b) Weight & Balance & Performance Data

(c) FAA Flight Plan

Documenting, filing, opening & closing

(d) Use of aeronautical charts and information

Sectional and VFR Terminal Charts and Airport/Facility Directory, NOTAMS

(e) Enroute communications

FSS, FSS remote, Flight Watch

(f) Use of radio aids for navigation

(g) Pilotage navigation (VR)

(h) Use of radio aids to navigation (VOR, GPS)

(i) ATC communications

(j) Traffic pattern entry

### B. Completion Standards–

Student obtains standard weather briefing prior to flight and utilizes services of Flight Watch enroute for updated conditions.

Student demonstrates accurate planning and conduct of cross country flight.

Student activates and closes flight plan.

Student maintains navigation log.

**INTENTIONALLY LEFT BLANK**



**CAE Oxford Aviation Academy, Phoenix**  
5010 E. Falcon Drive—Suite 201  
Mesa, AZ 85215  
U.S.A.

Phone +1 480 948 4515  
Fax +1 480 948 5103