DEPARTMENT OF TECHNOLOGY
AVIATION PROGRAM
AVIA 142, 143 & 144 – PRIVATE PILOT FLIGHT TRAINING
PRIVATE PILOT FLIGHT TRAINING COURSE OUTLINE

Instructor Qualifications:
Certified Flight Instructor (CFI)

Student Name:

_____

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TABLE OF CONTENTS

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Revision: III	Date: 09/01/2017	LOG OF REVISIONS

The Walla Walla University Aviation Faculty have prepared the following revisions. Each revision has a revision number and date.

LOG OF REVISIONS		
Revision #	**Date**	**Initials**
Original	09/08/2015	MG/MT
I	01/04/2016	MG/MT
II	09/01/2016	MG/MT
III	09/01/2017	PG/MT

Cover Photo Credit: Vitaliy Krivoruk

INTRODUCTION

This course fulfills the requirements of 14 CFR, Section 61, Subpart E for obtaining a private pilot certificate with airplane category, single engine land class rating.

COURSE OBJECTIVE:

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

COURSE COMPLETION STANDARD:

The student will demonstrate/show through written exams, oral tests, flight tests, and appropriate records that they possess the knowledge, skill, and experience requirements necessary to obtain a private pilot certificate. The specific requirements for each test and stage check are described in the appropriate syllabus lesson. At the completion of flight training the student will pass the Private Pilot practical test, based on the current Private Pilot Airman Certification Standards (ACS).

STAGE EXAMS/CHECKS/END-OF-COURSE CHECK

The syllabus incorporates stage exams, checks and an end-of-course check.

The student will complete stage exams as listed in this training course outline. The student will complete the stage exam with a grade of 70% or better. All subject areas shown to be deficient by the stage exams will be reviewed with an authorized instructor.

The student will complete stage checks as listed in this training course outline. The student will complete the stage check to the required completion standards in the flight lesson. Students unable to meet the completion standards will require additional instruction before re-qualifying to take the stage check.

The student will complete the end-of-course check as listed in this training course outline. The student will complete the end-of-course check with an aviation faculty or authorized instructor. It will be conducted in accordance with the current Private Pilot Airman Certification Standards and will be at least equal in scope, depth, and

difficulty to that practical test. Students unable to meet these standards will require additional instruction before re-qualifying to take the end of course check.

Training records will be updated to reflect all stage exams/checks and the end of course check.

STUDENT INFORMATION

REQUIREMENTS FOR SOLO FLIGHT:

Before you can fly solo you must hold the student pilot certificate and at least a current third class medical certificate. You must also be at least 16 years of age in order to obtain a student pilot certificate and be able to read, speak, write, and understand the English language. Remember that solo flight operations require specific training, successful completion of a pre-solo written exam, and endorsements from your flight instructor.

REQUIREMENTS FOR COMPLETION:

To obtain a private pilot certificate, you must be able to read, write, speak, and understand the English language and have, at the least, a valid FAA third-class medical certificate and be at least 17 years of age at the completion of the course. You must complete the lessons in the syllabus and satisfy the requirements described in the Course Completion Standard on the first page.

LESSON DESCRIPTION AND STAGES OF TRAINING:

Each lesson is fully described within the syllabus, including the objectives, standards, and measurable units of accomplishment and learning for each lesson.

VFR WEATHER MINIMUMS FOR STUDENT PILOTS

Due to the dynamic nature of weather, it is imperative that you obtain an adequate weather briefing and exercise conservative judgment by staying on the ground or landing as soon as practical whenever you encounter questionable or deteriorating weather conditions.

Wind Limitations:

Approval by an aviation faculty is required to fly in any winds that exceed:

Pilot	KALW Winds	Other Airport Winds
Student Pilots	15 knots total 7 knots direct crosswind	15 knots total 7 knots direct crosswind
Dual Flights	At instructor's discretion	At instructor's discretion

VFR Flight Limitations:

Approval by an aviation faculty is required to fly when the ceiling and/or the visibility are below those shown below. The ceiling and visibility must be able to be maintained throughout the entire flight. Conditions required for cross-country flight must be forecast to exist one hour before the departure time to one hour after the expected time of arrival.

Pilot	Local		Cross-Country	
	Ceiling	Visibility	Ceiling	Visibility
Student Pilots	3000' AGL	10 SM	4000' AGL	P6SM
Dual Flights	At instructor's discretion		At instructor's discretion	

SCHEDULE

AVIA 142											
STAGE	LESSON	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	Lesson Times are Shown in Hours										
	1	1	2								
	2	1	2								
	3	0.5								1	
	4	1	1								
	5	0.5	2								
	6	0.5	2						0.2		
	7	0.5	2								
	8	1	2						0.2		
	9	1	4								
	10										1
	11	1	1								
	12	0.5	1	0.5							
	13	1	2								
	14			2							
	15	0.5	1						0.3		
	16			2							
	17	0.5								1	
	18			1.5							
Class Totals:		**10.5**	**22**	**6**	**0**	**0**	**0**	**0**	**0.7**	**2**	**1**
Stage II continues in next academic class											

AVIA 143

STAGE	LESSON	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	Lesson Times are Shown in Hours										
	19	2	2.5				2.5				
	20	1	1.5		1.5	5				1	
	21[1]	2	2.5		2.5	2	2.5		1		
	22	1	2.5								
	23										1
	24			2				2			
	25[2]			3.5				3.5			
	26	0.5	1.5								
	27			3							
	28	1	1.5		1.5	5					
	29	0.5	2						0.4		
	30			5							
	31	2	5						0.6		
	32										1
	33[3]	2	2						0.3		
Class Totals:		**12**	**20.5**	**13.5**	**5**	**12**	**5**	**5.5**	**2.3**	**1**	**2**

Totals:	**22.5**	**42.5**	**19.5**	**5**	**12**	**5**	**5.5**	**3**	**3**	**3**

Course Total:	**65***

[1] Lesson 21 completes the night cross country requirements of 14 CFR 61.109(a)(2)
[2] Lesson 25 completes the long solo cross-country requirements of 14 CFR 61.109(a)(5)
*Course total includes Dual, Solo and AATD Training Time

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STAGE I

STAGE OBJECTIVE

During this stage, the student obtains the foundation for all future aviation training. The student becomes familiar with the training airplane and learns how the airplane controls are used to establish and maintain specific flight attitudes. Through review and the introduction of new maneuvers, the student will gain the proficiency to solo the training airplane in the traffic pattern.

STAGE COMPLETION STANDARD

At the completion of this stage, the student will demonstrate an understanding of the basic flight maneuvers introduced in this stage. Additionally, the student will understand how to maintain specific flight attitudes and ground tracks. The student will have successfully soloed in the local area. In addition, the student will have the proficiency required for introduction of maximum performance takeoff and landing procedures in the following stage.

FLIGHT LESSON 1 – DUAL

LESSON OBJECTIVE:

During this lesson, the student is introduced to the training airplane. The student will learn how to conduct the necessary preflight activities, be introduced to the flight controls, and learn how they are used to maintain specific attitudes.

CONTENT:

Section A – Lesson Introduction

Preflight Preparations and Procedures

- ❑ Certificates and Documents (1)
- ❑ Airworthiness Requirements (2)
- ❑ Airplane Logbooks (3)
- ❑ Use of Checklists (4)
- ❑ Positive Exchange of Flight Controls (5)
- ❑ Preflight Inspection (6)
- ❑ Airplane Servicing (7)
- ❑ Fuel Grades (8)
- ❑ Airplane Systems (9)
- ❑ Location of Fire Extinguisher and First Aid Kit

Flight Orientation

- ❑ Engine Starting (10)
- ❑ Radio Communications (11)
- ❑ Taxi (12)
- ❑ Pretakeoff Check (13)
- ❑ Use of Trim (14)
- ❑ Normal Takeoff and Climb (15)
- ❑ Climbs and Descents (16)
- ❑ Level Off (17)
- ❑ Straight-and-level Flight (18)
- ❑ Shallow and Medium Banked Turns in Both Directions (19)
- ❑ Normal Approach and Landing (20)
- ❑ Post Flight Procedures (21)

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of aircraft systems and the necessity of checking their operation before flight. Additionally, the student will be familiar with the control systems and how they are used to maneuver the airplane on the ground and in the air.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 1**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**2**								
Totals:										

References:

(1) FAA-H-8083-3B Page 2-4
(2) FAA-H-8083-3B Page 1-4
(3) FAA-H-8083-3B Page 2-2
(4) FAA-H-8083-3B Page 1-13
(5) FAA-H-8083-3B Page 1-15
(6) FAA-H-8083-3B Page 2-2
(7) FAA-H-8083-3B Page 2-9
(8) FAA-H-8083-25B Page 7-27
(9) C-172M POH Section 7
(10) C-172M POH Page 4-6 & 4-7
(11) AIM 2017 4-2-3
(12) FAA-H-8083-3B Page 2-14
(13) FAA-H-8083-3B Page 5-2
(14) FAA-H-8083-3B Page 3-10
(15) FAA-H-8083-3B Page 5-3
(16) FAA-H-8083-3B Page 3-17 & 3-19
(17) FAA-H-8083-3B Page 3-18
(18) FAA-H-8083-3B Page 3-6
(19) FAA-H-8083-3B Page 3-11
(20) FAA-H-8083-3B Page 8-2
(21) FAA-H-8083-3B Page 2-19

FLIGHT LESSON 2 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will review the procedures introduced in Flight Lesson 1 to gain proficiency in basic aircraft control. Basic maneuvers by instrument reference are introduced to increase the student's airplane control skills.

CONTENT:

Section A – Lesson Review

- ❑ Preflight Inspection
- ❑ Certificates and Documents
- ❑ Airplane Servicing
- ❑ Airplane Systems
- ❑ Engine Starting
- ❑ Radio Communications
- ❑ Taxi
- ❑ Use of Trim
- ❑ Pretakeoff Check
- ❑ Normal Takeoff and Climb
- ❑ Straight-and-level Flight
- ❑ Climbs
- ❑ Shallow and Medium Banked Turns in Both Directions
- ❑ Normal Approach and Landing
- ❑ Post Flight Procedures

Section B – Lesson Introduction

- ❑ Airport Operations (1)
- ❑ Airport and Runway Marking and Lighting (2)
- ❑ Crosswind Taxi (3)
- ❑ Airspeed Transitions (4)
- ❑ Flight at Approach Airspeed (5)
- ❑ Collision Avoidance Precautions (6)
- ❑ Airport Traffic Pattern Entry and Departure Procedures (7)

COMPLETION STANDARDS:

At the completion of this lesson, the student will be able to make takeoffs with instructor assistance. Preflight activities will be conducted accurately, and the student will display an increased understanding and proficiency in coordinated airplane attitude control. Additionally, the student should be familiar with the control usage necessary to maintain altitude within 250 feet during airspeed changes.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 2** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**2**								
Totals:										

References:

(1) FAA-H-8083-3B Chapter 7
(2) AIM 2017 2-3-3 & 2-1-5
(3) FAA-H-8083-3B Page 2-16
(4) FAA-H-8083-3B Page 3-4
(5) FAA-H-8083-3B Page 8-3
(6) FAA-H-8083-3B Page 1-11
(7) FAA-H-8083-3B Page 7-3

FLIGHT LESSON 3 – AATD

LESSON OBJECTIVE:

During this lesson, the student will review the procedures introduced in Flight Lessons 1 and 2 to gain proficiency in basic aircraft control.

CONTENT:

Section A – Lesson Review

- ❑ Use of Checklists
- ❑ Positive Exchange of Flight Controls
- ❑ Aircraft Systems
- ❑ Engine Starting
- ❑ Airport and Runway Marking and Lighting
- ❑ Radio Communications
- ❑ Pretakeoff Check
- ❑ Normal and/or Crosswind Taxi
- ❑ Normal Takeoff and Climb
- ❑ Airport Traffic Pattern Entry and Departure Procedures
- ❑ Collision Avoidance Precautions
- ❑ Flight at Approach Airspeed
- ❑ Normal Approach and Landing

COMPLETION STANDARDS:

The student will perform unassisted takeoffs; landings will be completed with instructor assistance. The student will demonstrate correct communications and traffic pattern procedures.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 3**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5								**1**	
Totals:										

FLIGHT LESSON 4 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will review airspeed control maneuvers and be introduced to stalls from various flight conditions to increase understanding of airplane control during normal and critical flight conditions.

CONTENT:

Section A – Lesson Review

- ❑ Preflight Inspection
- ❑ Engine Starting
- ❑ Radio Communications
- ❑ Pretakeoff Check
- ❑ Normal Takeoff and Climb
- ❑ Airport Traffic Pattern Entry and Departure Procedures
- ❑ Collision Avoidance Precautions
- ❑ Airspeed Transitions
- ❑ Flight at Approach Airspeed
- ❑ Normal Approach and Landing
- ❑ Airport and Runway Marking and Lighting

Section B – Lesson Introduction

- ❑ Maneuvering During Slow Flight (1)
- ❑ Power-Off Stalls (2)
- ❑ Power-On Stalls (3)
- ❑ Descents in High and Low Drag Configurations

COMPLETION STANDARDS:

The student will perform unassisted takeoffs; landings will be completed with instructor assistance. The student will demonstrate correct communications and traffic pattern procedures. Additionally, altitude maintenance during airspeed transitions and maneuvering during slow flight will be within +/- 250 feet of intended altitude.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 4** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**1**								
Totals:										

References:

(1) FAA-H-8083-3B Page 4-3

(2) FAA-H-8083-3B Page 4-8 & 4-9

(3) FAA-H-8083-3B Page 4-9

FLIGHT LESSON 5 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will practice the maneuvers listed for review to gain additional proficiency and demonstrate the ability to recognize and recover from imminent stalls. The student also will receive instruction and practice in the maneuvers and procedures listed for introduction.

CONTENT:

Section A – Lesson Review

- ❑ Maneuvering During Slow Flight
- ❑ Power-Off Stalls
- ❑ Power-On Stalls
- ❑ Normal Takeoffs and Landings
- ❑ Collision Avoidance Precautions
- ❑ Descents With and Without Turns Using High and Low Drag Configurations

Section B – Lesson Introduction

- ❑ Wake Turbulence Avoidance (1)
- ❑ Wind Shear Avoidance (2)
- ❑ Emergency Procedures (3)
- ❑ Emergency Approach and Landing (4)
- ❑ Systems and Equipment Malfunctions (5)
- ❑ Climbing and Descending Turns (6)
- ❑ Steep Turns (medium and steep banked turns in both directions) (7)
- ❑ Demonstrated Stalls (8)
- ❑ Spin Awareness (9)
- ❑ Turns to Headings (10)
- ❑ Flight at Slow Airspeeds with Realistic Distractions, and the Recognition and Recovery from Stalls Entered from Straight Flight and from Turns (11)

COMPLETION STANDARDS:

The student will be familiar with the procedures used during emergency approach and landing situations. Additionally, the student will demonstrate improved performance with regard to recognition and recovery from stalls and maneuvering during slow flight.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 5** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5	**2**								
Totals:										

References:

(1) FAA-H-8083-25B Page 5-9
(2) FAA-H-8083-25B Page 12-11
(3) C-172M POH Section 3
(4) C-172M POH Page 3-10
(5) C-172M POH Section 3
(6) FAA-H-8083-3B Page 3-18 & 3-19
(7) FAA-H-8083-3B Page 9-2
(8) FAA-H-8083-3B Page 4-5
(9) FAA-H-8083-3B Page 4-13
(10) FAA-H-8083-3B Page 3-10 to 3-16
(11) FAA-H-8083-3B Page 4-3

FLIGHT LESSON 6 – DUAL

LESSON OBJECTIVE:

The student also is introduced to ground reference maneuvers. Also, maneuvering during slow flight solely by reference to instruments is introduced.

CONTENT:

Section A – Lesson Review

- ❑ Maneuvering During Slow Flight
- ❑ Imminent Stalls
- ❑ Flight at Slow Airspeeds with Realistic Distractions
- ❑ Recognition and Recovery from Stalls Entered from Straight Flight and from Turns
- ❑ Power-Off Stalls
- ❑ Power-On Stalls
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ Approaches to the Landing Area with Engine Power at Idle and with Partial Power
- ❑ Normal Take-off and Landings

Section B – Lesson Introduction

- ❑ Rectangular Courses (1)
- ❑ S-Turns Across a Road (2)
- ❑ Turns Around a Point (3)
- ❑ Maneuvering During Slow Flight (IR) (4)
- ❑ Turns to Headings (IR) (5)

COMPLETION STANDARDS:

The student will display the ability to maintain a specific ground track, using coordinated control inputs. Additionally, the student will maintain altitude within +/- 225 feet and headings within +/- 15° during straight-and-level flight. Finally, the student will demonstrate the ability to recognize and recover from full stalls.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 6** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5	**2**						**0.2**		
Totals:										

References:

(1) FAA-H-8083-3B Page 6-6 to 6-7
(2) FAA-H-8083-3B Page 6-9
(3) FAA-H-8083-3B Page 6-8
(4) FAA-H-8083-3B Page 4-3
(5) FAA-H-8083-3B Page 3-10 to 3-16

FLIGHT LESSON 7 – DUAL

LESSON OBJECTIVE:

During the lesson, the student will practice the review maneuvers to gain proficiency. Additionally, slips and crosswind takeoffs and landings are introduced so the student may begin to understand this procedure during varying wind conditions.

CONTENT:

Section A – Lesson Review

- ❑ Rectangular Courses
- ❑ S-Turns Across a Road
- ❑ Turns Around a Point
- ❑ Normal Takeoffs and Landings
- ❑ Traffic Pattern Operations
- ❑ Wake Turbulence Avoidance

Section B – Lesson Introduction

- ❑ Go-Arounds/Rejected Landing (1)
- ❑ Forward Slips to Landing (2)
- ❑ Crosswind Takeoff and Climb (3)
- ❑ Crosswind Approach and Landing (4)
- ❑ ATC Light Signals (5)
- ❑ Forced Landing Procedures Initiated at Takeoff, During Initial Climb, Cruise, Descents, and in the Landing Pattern (6)
- ❑ Runway Incursion Avoidance (7)
- ❑ LAHSO – Land and Hold Short Operations (8)

COMPLETION STANDARDS:

The student will be able to fly specific ground tracks while maintaining altitude within +/- 200 feet. The student will demonstrate an understanding of how to perform a forward slip. The student will indicate knowledge of go-arounds/rejected landings, and normal takeoffs and landings.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 7** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5	**2**								
Totals:										

References:

(1) FAA-H-8083-3B Page 8-12
(2) FAA-H-8083-3B Page 8-11 to 8-12
(3) FAA-H-8083-3B Page 5-8
(4) FAA-H-8083-3B Page 8-14
(5) FAR 2017 §91.125
(6) C-172M POH Page 3-9 & 3-10
(7) FAA-H-8083-25B Page 14-30
(8) FAA-H-8083-25B Page 14-10

FLIGHT LESSON 8 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will practice instrument flight maneuvers, emergencies, and takeoffs and landings in preparation for solo flight.

CONTENT:

Section A – Lesson Review

- ❑ Preflight Preparations and Procedures
- ❑ Engine Starting
- ❑ Radio Communications
- ❑ Normal and/or Crosswind Taxi
- ❑ Pretakeoff Check
- ❑ Normal and/or Crosswind Takeoff and Climb
- ❑ Collision Avoidance Precautions
- ❑ Power-Off Stalls
- ❑ Power-On Stalls
- ❑ Maneuvering During Slow Flight
- ❑ Flight at Slow Airspeeds with Realistic Distractions
- ❑ Recognition and Recovery from Stalls Entered from Straight Flight and from Turns
- ❑ Steep Turns
- ❑ Straight-and-Level Flight (IR)
- ❑ Turns to Headings (IR)
- ❑ Constant Airspeed Climbs (IR)
- ❑ Constant Airspeed Descents (IR)
- ❑ Systems and Equipment Malfunctions
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ Rectangular Courses
- ❑ S-Turns Across a Road
- ❑ Turns Around a Point
- ❑ Traffic Pattern Operations
- ❑ Go-Around from a Rejected Landing

- ❑ Normal and/or Crosswind Approach and Landing
- ❑ Forward Slips to Landing
- ❑ Wake Turbulence Avoidance
- ❑ Wind Shear Avoidance

COMPLETION STANDARDS:

The student should demonstrate increased skill in instrument scan and interpretation during instrument flight. Emergency procedures, takeoffs, landings, and go-arounds should be performed without instructor assistance.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 8** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**2**						**0.2**		
Totals:										

FLIGHT LESSON 9 – DUAL

LESSON OBJECTIVE:

During this lesson, the instructor will evaluate the student's progress to determine readiness for solo flight and to correct any faulty performance areas.

CONTENT:

Section A – Lesson Review

- ❑ Climbing and Descending Turns
- ❑ Crosswind Takeoff and Climb
- ❑ Crosswind Approach and Landing
- ❑ Go-around from a Rejected Landing
- ❑ Forward Slips to Landing
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ ATC Light Signals
- ❑ Forced Landing Procedures Initiated at Takeoff, During Initial Climb, Cruise, Descents, and in Landing Pattern.

COMPLETION STANDARDS:

The student will display the ability to solo the training airplane safely in the local area. Additionally the student will indicate good understanding of local airport and airspace rules as well as systems and equipment malfunctions and related emergency procedures. At no time will the safety of the flight be in question.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 9** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**4**								
Totals:										

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FLIGHT LESSON 10 – EXAM

LESSON OBJECTIVE:

The objective of this lesson is to evaluate the student's knowledge through a pre-solo knowledge exam.

CONTENT:

- ❑ Pre-Solo Knowledge Exam

COMPLETION STANDARDS:

The student should score at least 70% on the pre-solo knowledge test. In addition, the instructor is responsible for reviewing those questions missed.

Record Keeping

SCORE: _____

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 10**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
										1
Totals:										

FLIGHT LESSON 11 – DUAL

LESSON OBJECTIVE:

During this stage check, an aviation faculty or authorized instructor evaluates the student's solo abilities to determine if the student is prepared to depart the traffic pattern area on future solo flights.

CONTENT:

Section A – Lesson Review

- ❑ Airworthiness Requirements
- ❑ Airplane Systems
- ❑ Engine Starting
- ❑ Radio Communications
- ❑ Taxi
- ❑ Pretakeoff Check
- ❑ Normal Takeoff and Climb
- ❑ Traffic Pattern Operations
- ❑ Systems and Equipment Malfunctions
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ Collision Avoidance Precautions
- ❑ Maneuvering During Slow Flight
- ❑ Flight at Slow Airspeeds with Realistic Distractions
- ❑ Power On Stalls
- ❑ Power Off Stalls
- ❑ Spin Awareness
- ❑ Wake Turbulence Avoidance
- ❑ Normal Approach and Landing
- ❑ Post Flight Procedure

COMPLETION STANDARDS:

This lesson and Stage I are complete when the student can competently perform preflight duties and all other procedures necessary for the safe conduct of a solo flight in the local training area. Altitude will be maintained within 200 feet, headings within 15°, and airspeed within 10 knots.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 12**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**1**								
Totals:										

FLIGHT LESSON 12 – DUAL/SOLO

LESSON OBJECTIVE:

Prior to this flight, the instructor will administer and grade the presolo written exam. During the dual portion of the lesson, the instructor will review takeoff and landing procedures to check the student's readiness for solo flight; and, in the second portion of the lesson, the student will fly the first supervised solo flight in the local traffic pattern.

CONTENT:

Section A – Lesson Review

- ❑ Engine Starting
- ❑ Radio Communications
- ❑ Normal and/or Crosswind Taxi
- ❑ Pretakeoff Check
- ❑ Normal Takeoffs
- ❑ Traffic Pattern Operations
- ❑ Go-Around From a Rejected Landing
- ❑ Normal Landings

Section B – Lesson Introduction

- ❑ Supervised Solo (1)
  - Preflight Preparations and Procedures (2)
  - Airport Operations (3)
  - Radio Communications (4)
  - Taxi (5)
  - Pretakeoff Check (6)
  - Normal Takeoffs and Climbs (7)
  - Traffic Pattern Operations (3)
  - Normal Approaches and Landings (8)
  - Post Flight Procedures (9)

COMPLETION STANDARDS:

This lesson is complete when the student accomplishes a supervised solo as directed by the instructor. The student will adhere to established traffic pattern procedures and demonstrate that solo flight in the traffic pattern can be accomplished safely.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 11**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5	**1**	**0.5**							
Totals:										

References:

(1) FAA-H-8083-25B Page 1-20 & 1-21
(2) FAA-H-8083-3B Page 2-2
(3) FAA-H-8083-3B Chapter 7
(4) FAA-H-8083-25B Page 14-22 to 14-24
(5) FAA-H-8083-3B Page 2-14
(6) FAA-H-8083-3B Page 5-3
(7) FAA-H-8083-3B Page 5-6 to 5-10
(8) FAA-H-8083-3B Page 8-2
(9) FAA-H-8083-3B Page 2-19

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STAGE II

STAGE OBJECTIVE:

This stage allows the student to expand the skills learned in the previous stage. The student is introduced to short-field and soft-field take off and landing procedures as well as night flight, which are important steps in preparation for cross country training. Additionally greater emphasis is placed on attitude control by instrument reference to increase the student's overall competence. In the cross-country phase the student will learn to plan and conduct cross-country flights using pilotage, dead reckoning, and radio navigation systems and how to safely conduct flights in the national airspace system.

STAGE COMPLETION STANDARD:

This stage is complete when the student can accurately plan and conduct cross-country flights. In addition, the student will have the proficiency to safely demonstrate consistent results in performing short-field and soft-field takeoffs and landings and night operations. The proficiency level must be such that the successful and safe outcome of each task is never in doubt.

FLIGHT LESSON 13 – DUAL

LESSON OBJECTIVE:

During this lesson, the student review private pilot maneuvers and will learn to obtain the maximum takeoff and landing performance from the training airplane.

CONTENT:

Section A – Lesson Review

- ❑ Rectangular Courses
- ❑ Turns Around a Point
- ❑ S-Turns Across a Road
- ❑ Maneuvering During Slow Flight
- ❑ Steep Turns
- ❑ Power-on Stalls
- ❑ Power-off Stalls
- ❑ Forward Slips to Landing

Section B – Lesson Introduction

- ❑ Short-Field Takeoff and Climb (1)
- ❑ Soft-Field Takeoff and Climb (2)
- ❑ Short-Field Approach and Landing (3)
- ❑ Soft-Field Approach and Landing (4)

COMPLETION STANDARDS:

The student will be able to explain what runway conditions necessitate the use of soft-field and short-field takeoff and landing techniques. Additionally, the student will be able to demonstrate the correct procedure to be used under these conditions, although proficiency will not be at the private pilot level.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 13** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**2**								
Totals:										

References:

(1) FAA-H-8083-3B Page 5-10
(2) FAA-H-8083-3B Page 13-4
(3) FAA-H-8083-3B Page 13-7
(4) FAA-H-8083-3B Page 8-21

FLIGHT LESSON 14 – SOLO

LESSON OBJECTIVE:

The student will fly the second supervised solo flight in the local traffic pattern.

CONTENT:

Section A – Lesson Review

- ❑ Engine Starting
- ❑ Radio Communications
- ❑ Normal and/or Crosswind Taxi
- ❑ Pretakeoff Check
- ❑ Normal Takeoffs
- ❑ Traffic Pattern Operations
- ❑ Go-Around from a Rejected Landing
- ❑ Normal Landings
- ❑ Post flight Procedures

COMPLETION STANDARDS:

This lesson is complete when the student successfully accomplishes a supervised solo as directed by the instructor. The student will adhere to established traffic pattern procedures and demonstrate that solo flight in the traffic pattern can be accomplished safely.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 14**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
			2							
Totals:										

FLIGHT LESSON 15 – DUAL

LESSON OBJECTIVE:

The instructor will evaluate the student's takeoff, landing, and stall performance to determine any areas of weakness. Additionally, airplane control by instrument reference during emergency situations is introduced to broaden the student's knowledge.

CONTENT:

Section A – Lesson Review

- ❑ Short-field Takeoffs and Climbs
- ❑ Short-field Approaches and Landings
- ❑ Power-off Stalls
- ❑ Power-on Stalls
- ❑ Straight-and-level Flight (IR)
- ❑ Straight, Constant Airspeed Climbs (IR)
- ❑ Straight, Constant Airspeed Descents (IR)
- ❑ Turns to Headings (IR)
- ❑ Maneuvering During Slow Flight (IR)

Section B – Lesson Introduction

- ❑ VOR Orientation and Tracking (1)
- ❑ GPS Orientation and Course Programming (2)
- ❑ Unusual Attitude Recoveries (3)
- ❑ Emergency Procedures (IR) (4)

COMPLETION STANDARDS:

The student will perform takeoffs and landings smoothly, while maintaining good directional control. All approaches will be stabilized, and airspeed will be within five knots of that desired. The student will also display the correct recovery techniques from unusual attitudes and should be able to respond correctly during emergency situations solely by instrument reference.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 15** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5	**1**						**0.3**		
Totals:										

References:

(1) FAA-H-8083-25B Page 16-25
(2) FAA-H-8083-25B Page 16-32
(3) FAA-H-8083-3B Page 4-17
(4) C-172M POH Section 3

FLIGHT LESSON 16 – SOLO

LESSON OBJECTIVE:

During this lesson, the student will practice the listed maneuvers to gain proficiency and confidence.

CONTENT:

Section A – Lesson Review

- ❑ Normal and/or Crosswind Takeoffs and Climbs
- ❑ Power-off Stalls
- ❑ Power-on Stalls
- ❑ Maneuvering During Slow Flight
- ❑ S-Turns Across a Road
- ❑ Turns Around a Point
- ❑ Normal and/or Crosswind Approaches and Landings
- ❑ Soft-field Takeoffs and Landings (Optional)

COMPLETION STANDARDS:

This lesson is complete when the student has conducted the assigned solo flight. During the lesson, the student should attempt to gain proficiency in each of the above listed maneuvers.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 16**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
			2							
Totals:										

FLIGHT LESSON 17 – AATD

LESSON OBJECTIVE:

During this lesson the student is introduced to VFR navigation procedures using VORs and NDBs in the simulator. In addition, cross-country planning and operational considerations will be discussed during the pre-flight briefing.

CONTENT:

Section A – Lesson Review

- ❑ VOR Orientation and Tracking
- ❑ GPS Orientation and Course Programming

Section B – Lesson Introduction

- ❑ Cockpit Management (1)
- ❑ Power Settings and Mixture Control (2)
- ❑ Pilotage (3)
- ❑ Dead-reckoning (4)
- ❑ Radio Navigation (5)
  - ADF Orientation and Tracking
  - Course Interception
  - Position Fix by Radio Aids
- ❑ Lost Procedures (6)
- ❑ Estimates of Ground Speed and ETA (7)

COMPLETION STANDARDS:

The student will demonstrate proficiency in VOR and NDB navigation. This includes VOR orientation, tracking, and course interception and NDB orientation. The student should also have adequate knowledge in all areas of the pre-flight discussion.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 17** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5								**1**	
Totals:										

References:

(1) FAA-H-8083-25B Page 2-4
(2) C-172M POH Page 4-16
(3) FAA-H-8083-25B Page 16-12
(4) FAA-H-8083-25B Page 16-13
(5) FAA-H-8083-25B Page 16-19
(6) FAA-H-8083-25B Page 16-34
(7) FAA-H-8083-25B Page 16-20

FLIGHT LESSON 18 – SOLO

LESSON OBJECTIVE:

During this lesson, the student will practice flight maneuvers, as assigned by the flight instructor, with special emphasis on correcting any deficient areas.

CONTENT:

Section A – Lesson Review

- ❑ Maneuvering During Slow Flight
- ❑ Power-off Stalls
- ❑ Power-on Stalls
- ❑ Steep Turns
- ❑ Rectangular Courses
- ❑ S-Turns Across a Road
- ❑ Turns Around a Point
- ❑ Short-field Takeoffs and Landings
- ❑ Soft-field Takeoffs and Landings
- ❑ Crosswind Approaches and Landings
- ❑ Forward Slips to Landing

COMPLETION STANDARDS:

This lesson is complete when the student has conducted the assigned solo flight. During the lesson, the student should attempt to gain proficiency in each of the above listed maneuvers.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 18**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
			1.5							
Totals:										

FLIGHT LESSON 19 – DUAL

LESSON OBJECTIVE:

During this lesson the student is introduced to the procedures and the techniques to be used during cross-country flight. Emphasize cross-country navigation procedures that include a point of landing at least a straight-line distance of more than 50 nm from the original point of departure.

CONTENT:

PREFLIGHT DISCUSSION:

Section A – Lesson Introduction

- ❑ Navigation Log (1)
- ❑ FAA Flight Plan (1)
- ❑ Sectional Charts (1)
- ❑ Flight Publications (1)
- ❑ Runway Incursion Avoidance (2)
- ❑ Route Selection (1)
- ❑ Obtaining Weather Information (3)
- ❑ Fuel Requirements (4)
- ❑ Determining Performance and Limitations (5)
- ❑ Weight and Balance (6)
- ❑ Cockpit Management (7)
- ❑ Aeromedical Factors (8)
- ❑ Aeronautical Decision Making (ADM) (9)
- ❑ Resource Use (10)
- ❑ Workload Management (10)

CROSS COUNTRY FLIGHT:

Section A – Departure

- ❑ Departure
- ❑ Opening Flight Plan
- ❑ Course Interception
- ❑ Use of Navigation Methods
- ❑ Power Settings and Mixture Control

Section B – En Route

- ❑ Radio Navigation
- ❑ Position Fix by Radio Aids
- ❑ Lost Procedures
- ❑ Diversion to an Alternate Procedure
    - Course Estimate and Confirmation

- Estimates of Ground Speed and ETA

❑ Flight on Federal Airways

Section C – Arrival

❑ Use of Automated Weather

❑ Controlled Airports/Uncontrolled Airports

❑ Use of Approach and Departure Control

❑ Airports with Heavy Traffic

❑ Go-arounds/Rejected Landing

❑ CTAF (FSS or UNICOM) Airports

❑ Closing Flight Plan

COMPLETION STANDARDS:

The student will demonstrate the skill to perform cross-country flight. This includes accurate and complete preflight planning, weather analysis, use of FAA publications and charts, adherence to the preplanned flight and the use of pilotage and dead reckoning services.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 19** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	2	**2.5**				**2.5**				
Totals:										

References:

(1) FAA-H-8083-25B Page 16-17 to 16-22
(2) FAA-H-8083-3B Page 1-12
(3) FAA-H-8083-25B Page 13-5
(4) FAR 2017 §91.151
(5) C-172M POH Section 5
(6) C-172M POH Section 6
(7) FAA-H-8083-25B Page 2-13 to 2-20
(8) FAA-H-8083-25B Chapter 17
(9) FAA-H-8083-25B Chapter 2
(10) FAA-H-8083-25B Page 2-21

FLIGHT LESSON 20 – AATD/DUAL

LESSON OBJECTIVE:

During this lesson, the student is introduced to the operational aspects of night flight. Special emphasis is placed upon the student learning the additional planning and flight considerations necessary when operating in the night environment.

CONTENT:

PREFLIGHT DISCUSSION:

Section A – Lesson Introduction

- ❑ Preflight Preparation (1)
- ❑ Night Vision (2)
- ❑ Disorientation (3)
- ❑ Visual Illusions (3)
- ❑ Night Scanning/Collision Avoidance (2)
- ❑ Aircraft, Airport, and Obstruction Lighting (4)
- ❑ Personal Equipment (5)
- ❑ Airworthiness Requirements (6)

NIGHT FLIGHT:

Section A – Lesson Introduction

- ❑ Aeromedical Factors (7)
- ❑ Flight Planning Considerations (8)
- ❑ Preflight Inspection (8)
- ❑ Preparation and Equipment (8)
- ❑ Taxiing (9)
- ❑ Power-off Stalls (10)
- ❑ Power-on Stalls (10)
- ❑ Steep Turns (10)
- ❑ Maneuvering During Slow Flight (10)
- ❑ Normal Takeoffs and Climbs (10)
- ❑ Normal Approaches and Landings (10)

- ❑ Short-field Takeoffs and Landings (10)
- ❑ Soft-field Takeoffs and Landings (10)
- ❑ Go-arounds/Rejected Landing (10)

COMPLETION STANDARDS:

The student will display an understanding of the importance of attitude control. Altitude should be controlled within +/- 250 feet during level turns, straight-and level flight, and flight at minimum controllable airspeed. Landing approaches should be stabilized using a constant airspeed and rate of descent to touchdown. Landings will be to a full stop (with each landing involving a flight in the traffic pattern) at an airport.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 20** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**1.5**		**1.5**	**5**				**1**	
Totals:										

References:

(1) FAA-H-8083-3B Page 10-6
(2) FAA-H-8083-25B Page 17-22 to 17-24
(3) FAA-H-8083-25B Page 17-7 to 17-12
(4) FAA-H-8083-25B Page 14-16 to 14-20
(5) Red Flashlight
(6) FAR 2017 §91.205
(7) FAA-H-8083-25B Chapter 17
(8) FAA-H-8083-3B Page 10-4
(9) FAA-H-8083-3B Page 2-14 to 2-17
(10) Refer to previous lessons

FLIGHT LESSON 21 – DUAL

LESSON OBJECTIVE:

During this lesson, the student is introduced to night cross-country procedures and the proper techniques to be used during flights out of the local training area. This flight prepares the student to make cross-country flights as the sole occupant of the airplane and will consist of a cross-country flight of more than 100 n.m. total distance and all landings made to a full stop (with each landing involving a flight in the traffic pattern) at an airport.

CONTENT:

Section A – Lesson Review

- ❑ Cross-country Procedures as Introduced in Lesson 18

Section B – Lesson Introduction

- ❑ Night Cross-country Flight Planning (1)
  - Route Selection
  - Fuel Requirements
  - Cockpit Management
- ❑ Night Cross-country Flight (1)
  - Departure
  - Course Interception
  - Pilotage
  - Dead Reckoning (IR)
  - Radio Navigation (IR)
  - Lost Procedures
- ❑ Night Airport Operations (2)
  - Controlled Airports/Uncontrolled Airports
  - Airport Lighting
  - Pilot Controlled Lighting
- ❑ Night Emergency Operations (3)
  - Systems and Equipment Malfunctions
  - Emergency Procedures
  - Emergency Approach and Landing

COMPLETION STANDARDS:

The student will demonstrate the skill to perform cross-country flights safely as the sole occupant of the airplane. This includes accurate and complete preflight planning, weather analysis, use of FAA publications and charts, adherence to the preplanned flight and the use of pilotage, dead reckoning, and radio navigation.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 21** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	2	**2.5**		**2.5**	**2**	**2.5**		**1**		
Totals:										

References:

(1) FAA-H-8083-3B Page 10-7
FAA-H-8083-25B Chapter 16
(2) FAA-H-8083-25B Chapter 14
(3) FAA-H-8083-3B Page 10-9

FLIGHT LESSON 22– DUAL

LESSON OBJECTIVE:

This stage check will be conducted by an aviation faculty or authorized instructor and will evaluate the student's ability to plan and conduct cross-country flights. The student will plan a cross-country flight to KPDT, KPSC, or KRLD.

CONTENT:

Section A – Preflight Preparation

- ❑ Cross-country Planning
- ❑ Obtaining Weather Information

Section B – Departure

- ❑ Departure
- ❑ Opening Flight Plan
- ❑ Course Interception
- ❑ Use of Navigation Methods
- ❑ Power Settings and Mixture Control

Section C – En Route

- ❑ Cockpit Management
- ❑ Aeronautical Decision Making (ADM)
- ❑ Resource Use
- ❑ Workload Management
- ❑ Radio Navigation
- ❑ Position Fix by Radio Aids
- ❑ Lost Procedures
- ❑ Diversion to an Alternate Procedure
  - Course Estimate and Confirmation
  - Estimates of Ground Speed and ETA
- ❑ Flight on Federal Airways

Section D – Arrival

- ❑ Use of Automated Weather
- ❑ Controlled Airports/Uncontrolled Airports
- ❑ Use of Approach and Departure Control
- ❑ Airports with Heavy Traffic
- ❑ Go-arounds/Rejected Landing
- ❑ CTAF (FSS or UNICOM) Airports
- ❑ Closing Flight Plan

COMPLETION STANDARDS:

The student will demonstrate the ability to plan and conduct cross-country flights and a thorough knowledge of airspace, flight planning, pre-flight action, weather analysis, and the use of all available publications. During the flight, the student will demonstrate the use of three methods of navigation, the ability to correctly determine location at any time, compute ETAs +/- 5 minutes, and be able to establish a course and compute ETA and fuel consumption to an alternate airport.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 22**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**2.5**								
Totals:										

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FLIGHT LESSON 23 – EXAM

LESSON OBJECTIVE:

The objective of this lesson is to evaluate the student's knowledge through a written stage exam.

CONTENT:

- ❑ Stage II Exam

COMPLETION STANDARDS:

The student should score at least 70% on the exam. In addition, the instructor is responsible for reviewing those questions missed.

Record Keeping

SCORE: _____

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 23**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
										1
Totals:										

FLIGHT LESSON 24 – SOLO

LESSON OBJECTIVE:

During this lesson, the student uses his previously learned cross-country skills during a solo flight. This experience will increase proficiency and confidence, which is necessary in developing a competent private pilot. At least one landing must be more than 50 nm from the departure airport.

CONTENT:

Section A – Lesson Review

- ❑ Preflight Planning
- ❑ Sectional Charts
- ❑ Flight Publications
- ❑ Route Selection
- ❑ Obtaining Weather Information
- ❑ Fuel Requirements
- ❑ Determining Performance and Limitations
- ❑ Weight and Balance
- ❑ Navigation Log
- ❑ FAA Flight Plan
- ❑ Cross Country Flight
    - Cockpit Management
    - Aeronautical Decision Making (ADM)
    - Resource Use
    - Workload Management
    - Pilotage
    - Dead Reckoning
    - Radio Navigation
    - Estimates of ETA
    - Use of Automated Weather
    - Controlled Airports/Uncontrolled Airports
    - Use of Approach and Departure Control
- ❑ Closing Flight Plan

COMPLETION STANDARDS:

The student will demonstrate accurate planning and conduct a VFR cross-country flight using the three methods of navigation.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 24**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
			2				**2**			
Totals:										

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STAGE III

STAGE OBJECTIVE

During this stage, the student will gain additional proficiency in solo cross-country operations and will prepare for the end of course check.

STAGE COMPLETION STANDARD

This stage will be complete when the student demonstrates performance of private pilot operations at a standard that meets or exceeds the minimum performance criteria for a private pilot certificate.

FLIGHT LESSON 25 – SOLO

LESSON OBJECTIVE:

During this lesson, the student will complete the cross-country requirement. This flight must be of at least 150 nautical miles total distance, with full-stop landings at three points, and one segment of the flight consisting of a straight-line distance of more than 50 nautical miles between the takeoffs and landing locations.

CONTENT:

Section A – Lesson Review

- ❑ Preflight Planning
- ❑ Sectional Charts
- ❑ Flight Publications
- ❑ Route Selection
- ❑ Obtaining Weather Information
- ❑ Fuel Requirements
- ❑ Determining Performance and Limitations
- ❑ Weight and Balance
- ❑ Navigation Log
- ❑ FAA Flight Plan
- ❑ Cross Country Flight
  - Cockpit Management
  - Aeronautical Decision Making (ADM)
  - Resource Use
  - Workload Management
  - Pilotage
  - Dead Reckoning
  - Radio Navigation
  - Estimates of ETA
  - Use of Automated Weather
  - Controlled Airports/Uncontrolled Airports
  - Use of Approach and Departure Control
- ❑ Closing Flight Plan

COMPLETION STANDARDS:

The student will demonstrate accurate planning and conduct a VFR cross-country flight using the three methods of navigation.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 25**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
			3.5				**3.5**			
Totals:										

FLIGHT LESSON 26 – DUAL

LESSON OBJECTIVE:

During this flight, the instructor reviews and evaluates the student's proficiency to determine performance areas that need additional practice.

CONTENT:

Section A – Lesson Review

- ❑ Airworthiness Requirements
- ❑ Airplane Systems
- ❑ Engine Starting
- ❑ Pretakeoff Check
- ❑ Radio Communications
- ❑ Taxiing
- ❑ Normal and/or Crosswind Takeoffs and Landings
- ❑ Maneuvering During Slow Flight
- ❑ Flight at Slow Airspeeds with Realistic Distractions
- ❑ Power-on Stalls
- ❑ Power-off Stalls
- ❑ Spin Awareness
- ❑ Systems and Equipment Malfunctions
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ Turns Around a Point
- ❑ S-Turns Across a Road
- ❑ Collision Avoidance Precautions
- ❑ Traffic Pattern Operations
- ❑ Wake Turbulence Avoidance
- ❑ Short-field Takeoffs and Landings
- ❑ Soft-field Takeoffs and Landings
- ❑ Forward Slips to Landing
- ❑ Go-around From a Rejected Landing
- ❑ Post Flight Procedures

COMPLETION STANDARDS:

Any maneuvers that do not meet private pilot standards should be reviewed with the student and assigned for solo practice.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 26** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5	**1.5**								
Totals:										

FLIGHT LESSON 27 – SOLO

LESSON OBJECTIVE:

During this lesson, the student will review flight maneuvers to achieve the proficiency required in the private pilot Airman Certification standards.

CONTENT:

Section A – Lesson Review

- ❑ Airworthiness Requirements
- ❑ Airplane Systems
- ❑ Engine Starting
- ❑ Pretakeoff Check
- ❑ Radio Communications
- ❑ Taxiing
- ❑ Normal and/or Crosswind Takeoffs and Landings
- ❑ Maneuvering During Slow Flight
- ❑ Flight at Slow Airspeeds with Realistic Distractions
- ❑ Power-on Stalls
- ❑ Power-off Stalls
- ❑ Spin Awareness
- ❑ Systems and Equipment Malfunctions
- ❑ Turns Around a Point
- ❑ S-Turns Across a Road
- ❑ Collision Avoidance Precautions
- ❑ Traffic Pattern Operations
- ❑ Wake Turbulence Avoidance
- ❑ Short-field Takeoffs and Landings
- ❑ Soft-field Takeoffs and Landings
- ❑ Forward Slips to Landing
- ❑ Go-around From a Rejected Landing
- ❑ Post Flight Procedures

COMPLETION STANDARDS:

The lesson will consist of a minimum of 3 takeoffs and landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower. During the lesson the student should attempt to correct any weak performance areas determined in previous flight lessons.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 27**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
			3							
Totals:										

FLIGHT LESSON 28 – DUAL

LESSON OBJECTIVE:

During this lesson, the student reviews the operational aspects of night flight.

CONTENT:

Section A – Lesson Review

- ❑ Aeromedical Factors
- ❑ Flight Planning Considerations
- ❑ Preflight Inspection
- ❑ Preparation and Equipment
- ❑ Taxiing
- ❑ Power-off Stalls
- ❑ Power-on Stalls
- ❑ Steep Turns
- ❑ Maneuvering During Slow Flight
- ❑ Normal Takeoffs and Climbs
- ❑ Normal Approaches and Landings
- ❑ Short-field Takeoffs and Landings
- ❑ Soft-field Takeoffs and Landings
- ❑ Go-arounds/Rejected Landing

COMPLETION STANDARDS:

The student will display an understanding of the importance of the operational aspects of night flight. Landings will be to a full stop (with each landing involving a flight in the traffic pattern) at an airport. Any maneuvers that do not meet private pilot airman certification standards will be reviewed with the student and assigned for daytime solo practice.

Note:

Thru a combination of lessons 20, 21, and 28 the student will have completed a combined 10 takeoffs and landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 28** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	1	**1.5**		**1.5**	**5**					
Totals:										

FLIGHT LESSON 29 – DUAL

LESSON OBJECTIVE:

During this flight, the instructor reviews and evaluates the student's proficiency to determine performance areas that need additional practice.

CONTENT:

Section A – Lesson Review

- ❑ Straight-and-level Flight (IR)
- ❑ Constant Airspeed Climbs and Descents (IR)
- ❑ Turns to Headings (IR)
- ❑ Maneuvering During Slow Flight (IR)
- ❑ Power-off Stalls (IR)
- ❑ Power-on Stalls (IR)
- ❑ Unusual Attitude Recoveries (IR)
- ❑ Systems and Equipment Malfunctions
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ Lost Procedures
- ❑ Diversion to an Alternate Procedure
  - Course Estimate and Confirmation
  - Estimates of Ground Speed and ETA
- ❑ Radio Navigation (IR)

COMPLETION STANDARDS:

Any maneuvers that do not meet private pilot standards should be reviewed with the student.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 29** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	0.5	**2**						**0.4**		
Totals:										

FLIGHT LESSON 30 – SOLO

LESSON OBJECTIVE:

The student will practice flight maneuvers as assigned by the flight instructor with special emphasis on correcting any deficient areas in preparation for the end of course check.

CONTENT:

Section A – Lesson Review

- ❑ Airworthiness Requirements
- ❑ Airplane Systems
- ❑ Engine Starting
- ❑ Pretakeoff Check
- ❑ Radio Communications
- ❑ Taxiing
- ❑ Normal and/or Crosswind Takeoffs and Landings
- ❑ Maneuvering During Slow Flight
- ❑ Flight at Slow Airspeeds with Realistic Distractions
- ❑ Power-on Stalls
- ❑ Power-off Stalls
- ❑ Spin Awareness
- ❑ Systems and Equipment Malfunctions
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ Turns Around a Point
- ❑ S-Turns Across a Road
- ❑ Collision Avoidance Precautions
- ❑ Traffic Pattern Operations
- ❑ Wake Turbulence Avoidance
- ❑ Short-field Takeoffs and Landings
- ❑ Soft-field Takeoffs and Landings
- ❑ Forward Slips to Landing
- ❑ Go-around From a Rejected Landing
- ❑ Post Flight Procedures

COMPLETION STANDARDS:

The lesson is complete when the student has conducted the assigned solo flight. During the lesson, the student should attempt to correct any weak performance areas determined in previous lessons.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 30**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
			5							
Totals:										

FLIGHT LESSON 31 – DUAL

LESSON OBJECTIVE:

During this flight, the instructor reviews and evaluates the student's proficiency to determine performance areas that need additional practice.

CONTENT:

Section A – Lesson Review

- ❑ Airworthiness Requirements
- ❑ Airplane Systems
- ❑ Engine Starting
- ❑ Pretakeoff Check
- ❑ Radio Communications
- ❑ Taxiing
- ❑ Normal and/or Crosswind Takeoffs and Landings
- ❑ Straight-and-level Flight (IR)
- ❑ Constant Airspeed Climbs and Descents (IR)
- ❑ Turns to Headings (IR)
- ❑ Radio Navigation (IR)
- ❑ Diversion to an Alternate Procedure
  - Course Estimate and Confirmation
  - Estimates of Ground Speed and ETA
- ❑ Unusual Attitude Recoveries (IR)
- ❑ Lost Procedures
- ❑ Maneuvering During Slow Flight
- ❑ Flight at Slow Airspeeds with Realistic Distractions
- ❑ Power-on Stalls
- ❑ Power-off Stalls
- ❑ Spin Awareness
- ❑ Systems and Equipment Malfunctions
- ❑ Emergency Procedures
- ❑ Emergency Approach and Landing
- ❑ Turns Around a Point
- ❑ S-Turns Across a Road

- ❑ Collision Avoidance Precautions
- ❑ Traffic Pattern Operations
- ❑ Wake Turbulence Avoidance
- ❑ Short-field Takeoffs and Landings
- ❑ Soft-field Takeoffs and Landings
- ❑ Forward Slips to Landing
- ❑ Go-around From a Rejected Landing
- ❑ Post Flight Procedures

COMPLETION STANDARDS:

Each maneuver and procedure should be performed at the proficiency level of a private pilot.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 31** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	2	**5**						**0.6**		
Totals:										

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FLIGHT LESSON 32 – EXAM

LESSON OBJECTIVE:

The objective of this lesson is to evaluate the student's knowledge through a written exam.

CONTENT:

- ❑ Stage III Exam

COMPLETION STANDARDS:

The student should score at least 70% on the exam. In addition, the instructor is responsible for reviewing those questions missed.

Record Keeping

SCORE: _____

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 32**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
										1
Totals:										

FLIGHT LESSON 33 – DUAL

LESSON OBJECTIVE:

This lesson is the end of course check (EOC) and will be conducted by an aviation faculty or an authorized instructor. During this lesson the student must demonstrate knowledge and proficiency in all tasks to a level required by the FAA Private Pilot Airman Certification Standards. The order of material examined under lesson content is based on how this material may be covered during the oral and flight portions of the practical tests.

CONTENT:

S: Performance within ACS Standards
U: Performance on task not within ACS standards.

SPECIAL EMPHASIS AREAS:

In addition to the specific areas of operation (AOs) and tasks identified in the oral and flight portions of the test, the following special emphasis areas will be evaluated throughout the EOC:

S	U	
❑	❑	Positive Aircraft Control
❑	❑	Positive Exchange of Flight Controls Procedure
❑	❑	Stall/Spin Awareness
❑	❑	Collision/Wake Turbulence Avoidance
❑	❑	Land and Hold Short Operations
❑	❑	Runway Incursion Avoidance
❑	❑	Controlled Flight Into Terrain (CFIT)
❑	❑	Aeronautical Decision Making (ADM) and Risk Management
❑	❑	Wire Strike Avoidance
❑	❑	Checklist Usage
❑	❑	Temporary Flight Restrictions
❑	❑	Special Use Airspace
❑	❑	Aviation Security
❑	❑	Single Pilot Resource Management
❑	❑	Any other areas deemed appropriate

AREAS OF OPERATION (AOs):

Section I – Preflight Preparation

S	U	
❑	❑	Certificates and Documents
❑	❑	Airworthiness Requirements
❑	❑	Weather Information
❑	❑	Cross Country Flight Planning
❑	❑	National Airspace System
❑	❑	Performance and Limitations
❑	❑	Operation of Systems
❑	❑	Aeromedical Factors

Section II – Preflight Preparation

S	U	
❑	❑	Preflight Inspection
❑	❑	Cockpit Management
❑	❑	Engine Starting
❑	❑	Taxiing
❑	❑	Runway Incursion Avoidance
❑	❑	Before Takeoff Check

Section III – Airport Operations

S	U	
❑	❑	Radio Communications and ATC Light Gun Signals
❑	❑	Traffic Patterns
❑	❑	Airport Runway Taxiway Signs, Markings, and Lighting

Section IV – Takeoffs, Landings, and Go-Arounds

S	U	
❑	❑	Normal and Crosswind Takeoff and Climb
❑	❑	Normal and Crosswind Approach and Landing
❑	❑	Soft-field Takeoff and Climb
❑	❑	Soft-field Approach and Landing
❑	❑	Short-field Takeoff and Maximum Performance Climb
❑	❑	Short-field Approach and Landing
❑	❑	Forward Slip to a Landing

❑❑ Go-around/Rejected Landing

Section V – Performance Maneuver

S U

❑❑ Steep Turns

Section VI – Ground Reference Maneuver

S U

❑❑ Rectangular Course

❑❑ S-Turns

❑❑ Turns Around a Point

Section VII – Navigation

S U

❑❑ Pilotage and Dead Reckoning

❑❑ Navigation Systems and Radar Services

❑❑ Diversion

❑❑ Lost Procedures

Section VIII – Slow Flight and Stalls

S U

❑❑ Maneuvering During Slow Flight

❑❑ Power-off Stalls

❑❑ Power-on Stalls

❑❑ Spin Awareness

Section IX – Basic Instrument Maneuvers

S U

❑❑ Straight-and-level Flight

❑❑ Constant Airspeed Climbs

❑❑ Constant Airspeed Descents

❑❑ Turns to Headings

❑❑ Recover from Unusual Flight Attitudes

❑❑ Radio Communications, Navigation Systems/Facilities and

❑❑ Radar Services

Section X – Emergency Operations

S	U	
❑	❑	Emergency Descents
❑	❑	Emergency Approach and Landing (Simulated)
❑	❑	Systems and Equipment Malfunctions
❑	❑	Emergency Equipment and Survival Gear

Section XI – Night Operation

S	U	
❑	❑	Night Preparation

Section XII – Post Flight Procedures

S	U	
❑	❑	After Landing, Parking, and Securing

COMPLETION STANDARDS

The student will demonstrate proficiency in strict accordance with the Private Pilot Airman Certification Standards.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 33**

DATE	DUAL GROUND	DUAL	SOLO	DUAL NGT	NGT LNDG	DUAL XC	SOLO XC	INST DUAL	AATD	EXAM
	2	**2**						**0.3**		
Totals:										