DEPARTMENT OF TECHNOLOGY
AVIATION PROGRAM
AVIA 262 & 263 - INSTRUMENT PILOT FLIGHT TRAINING
INSTRUMENT PILOT FLIGHT TRAINING COURSE OUTLINE

Instructor Qualifications:
Certified Flight Instructor - Instrument (CFII)

Student Name:

_____

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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: Zach Rawson

INTRODUCTION

This course fulfills the requirements of 14 CFR, Section 61.65 for obtaining an instrument airplane rating.

COURSE OBJECTIVE:

The student will obtain the knowledge, skill, and aeronautical experience necessary to meet the requirements for an instrument airplane 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 an instrument airplane rating. The specific requirements for each test and stage check are described in the appropriate lesson. At the completion of flight training the student will pass the Instrument Airplane Rating practical test, based on the current Instrument Airplane Rating 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 a designated instructor. It will be conducted in accordance with the current Instrument Rating - Airplane 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

COURSE ENROLLMENT REQUIREMENTS:

To be eligible for enrollment in the WWU Instrument Flight Course, an applicant must:

- Be at least 17 years of age.
- Be able to read, speak, write, and understand the English language.
- At a minimum, hold a Third Class Medical Certificate
- Hold a Private Pilot - Airplane Certificate

REQUIREMENTS FOR GRADUATION:

You must complete the lessons in the syllabus and satisfy the requirements described in the Course Completion Standard.

LESSON DESCRIPTION AND STAGES OF TRAINING:

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

BASE OF OPERATIONS

All training flights originate from the Walla Walla University Flight Center located at the Walla Walla Regional Airport (KALW).

IFR WEATHER MINIMUMS

Instrument training flights (i.e. with a CFII) are at the discretion of the instructor. All other IFR flights shall follow the guidelines outlined in this section.

Instrument training under VFR will be in accordance with the basic VFR weather minimums in 14 CFR, Part 91.155.

IFR Takeoff:

Although Part 91 operations do not require a minimum visibility for takeoff it is suggested that the ceiling and visibility will be equal to or greater than the lowest Category A aircraft instrument approach minimums at the departure airport.

IFR Alternate:

Determination of the requirement for an alternate airport will be in accordance with 14 CFR, Part 91.169.

IFR Landing:

Instrument pilots should adhere to the published minimum weather for landings, in accordance with 14 CFR, Part 91.175, for the approaches at their destination and alternate airports. Weather should be forecast to allow the pilot to reach their destination within the limitations of the approach.

SCHEDULE

AVIA 262							
STAGE	LESSON	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	Lesson Times are Shown in Hours						
I	1	1	2		1.8		
	2	1	2		1.8		
	3	0.5				1.5	
	4	1	2		1.8		
	5	1	2		1.8		
	6	1	2		1.8		
	7	0.5				1	
	8	1	2		1.8		
	9						1
	10	0.5	1.2		1		
II	11	1				1.5	
	12	1	4		3.6		
Class Totals:		**9.5**	**17.2**	**0**	**15.4**	**4**	**1**
Stage II continues in next academic class							

AVIA 263

STAGE	LESSON	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	Lesson Times are Shown in Hours						
II Cont.	13	1	1.5		1.3		
	14	1	1.5		1.3		
	15	1	2		1.8		
	16	1				2	
	17	1	2		1.8		
	18	2	4		3		
	19	1	2.3		2.1		
	20						1
	21	1	2		1.8		
III	22	2	2.5	2.5	2.3		
	23[1]	2	4	4	3		
	24						1
	25	1	2		1.8		
Class Totals:		**14**	**23.8**	**6.5**	**20.2**	**2**	**2**

Totals:	**23.5**	**41**	**6.5**	**35.6**	**6**	**3**

Course Total:	**47***

[1] Lesson 23 completes the IFR cross country requirements of 14 CFR 61.65(d)(2)(ii)

* Course total includes Dual and AATD training time

AVIA 264							
STAGE	LESSON	SOLO	DUAL	XC	INST DUAL	AATD	EXAM
IV	Lesson Times are Shown in Hours						
	26	40		40			
Class Totals:		**40[1]**	**0**	**40**	**0**	**0**	**0**

[1]40 hours of cross-country flight time is used to meet the requirements of 14 CFR 61.65(d)(1)

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STAGE I

STAGE OBJECTIVE

During this stage, the student will learn precise aircraft attitude control solely by reference to the flight instruments. They will become familiar with the three fundamental skills of instrument flight: (1) instrument cross-check (2) instrument interpretation and (3) aircraft control. Additionally, the student will gain greater confidence in the use of navigational systems.

STAGE COMPLETION STANDARD

At the completion of this stage, the student will demonstrate precise aircraft attitude control solely by reference to the flight instruments while operating with both full and partial panels. In addition, the student will demonstrate effective use of navigation systems by accurately tracking courses and by maintaining positional awareness.

FLIGHT LESSON 1 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will review preflight preparation and procedures. Additionally they will practice attitude instrument flying solely by reference to the flight instruments. Aircraft instrument systems, equipment, and preflight checks necessary for IFR flight will also be introduced.

CONTENT:

Section A – Lesson Review

Preflight Preparations and Preflight Procedures

- ❑ Certificates and Documents
- ❑ Airworthiness Requirements
- ❑ Airplane Logbooks
- ❑ Performance
- ❑ Weight and Balance
- ❑ Operating of Systems
- ❑ Cockpit Resource Management
- ❑ Use of Checklists
- ❑ Positive Exchange of Flight Controls
- ❑ Collision Avoidance Precautions
- ❑ Controlled Flight Into Terrain (CFIT)
- ❑ Runway Incursion Avoidance

Section B – Lesson Introduction

- ❑ Preflight Inspection for IFR Flight (1)
- ❑ Aircraft Systems Related to IFR Flight (2)
- ❑ Radio Communications for IFR Flight (3)
- ❑ Air Traffic Control Clearances and Procedures (4)
- ❑ Flight Instruments and Navigation Equipment (5)
- ❑ Instrument Cockpit Check (6)
- ❑ Straight and Level Flight (7)
- ❑ Change of Airspeed (7)
- ❑ Standard-Rate Turns (7)

- ❑ Constant Airspeed Climbs (7)
- ❑ Climbing Turns (7)
- ❑ Constant Airspeed Descents (7)
- ❑ Descending Turns (7)
- ❑ Situational Awareness (6)
- ❑ Postflight Procedures (9)
- ❑ Checking Instruments and Equipment at Engine Shutdown (6)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate and understanding of and basic competence in full panel flight by reference to instruments: altitude +/-200 feet, heading +/- 15 degrees, airspeed +/- 15 knots, and bank angles +/- 5 degrees. Additionally, the student will display an understanding of the aircraft systems related to IFR flight and the importance of IFR preflight and takeoff preparations.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 1**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

References:

(1) FAA-H-8083-15B Page 10-26
(2) FAA-H-8083-15B Chapter 5
(3) FAA-H-8083-15B Page 2-4
(4) FAA-H-8083-15B Page 2-4 to 2-14
(5) FAA-H-8083-15B Chapter 9
(6) FAA-H-8083-15B Page 5-37
(7) FAA-H-8083-15B Chapter 7, Section I
(8) FAA-H-8083-15B Chapter 6, Section I
(9) 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 instrument flight operations and full panel instrument flight. Additionally the student will be introduced to stalls, slow flight, steep turns, and unusual attitudes while maintaining flight by reference to instruments.

CONTENT:

Section A – Lesson Review

- ❑ Preflight Inspection for IFR Flight
- ❑ Aircraft Systems Related to IFR Flight
- ❑ Radio Communications for IFR Flight
- ❑ Air Traffic Control Clearances and Procedures
- ❑ Flight Instruments and Navigation Equipment
- ❑ Instrument Cockpit Check
- ❑ Straight and Level Flight
- ❑ Change of Airspeed
- ❑ Standard-Rate Turns
- ❑ Constant Airspeed Climbs
- ❑ Climbing Turns
- ❑ Constant Airspeed Descents
- ❑ Descending Turns
- ❑ Situational Awareness
- ❑ Postflight Procedures
- ❑ Checking Instruments and Equipment at Engine Shutdown

Section B – Lesson Introduction

- ❑ Power-Off Stalls (1)
- ❑ Power-On Stalls (2)
- ❑ Maneuvering During Slow Flight (3)
- ❑ Recovery From Unusual Flight Attitudes (4)
- ❑ Steep Turns (5)
- ❑ Operations in Turbulence (6)

- ❑ IFR Takeoff Considerations (7)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate a basic understanding of systems and equipment related to IFR flight. The student will precisely control the airplane solely by reference to the flight instruments: altitude +/-200 feet, heading +/- 15 degrees, airspeed +/- 15 knots, and bank angles +/- 5 degrees. Additionally, the student should recognize the approach of stalls and demonstrate the correct recovery procedures from unusual flight attitudes.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

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

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

References:

(1) FAA-H-8083-3B Page 4-8 & 4-9
(2) FAA-H-8083-3B Page 4-9
(3) FAA-H-8083-3B Page 4-3
(4) FAA-H-8083-3B Page 4-17
FAA-H-8083-16A Page A3 & A4
(5) FAA-H-8083-3B Page 9-2
(6) FAA-H-8083-15B Page 10-22
(7) FAA-H-8083-16A Chapter 1

FLIGHT LESSON 3 – AATD

LESSON OBJECTIVE:

During this lesson, the student will review the full panel instrument flight. Additionally, partial panel instrument flight will be introduced to include related systems and equipment malfunctions.

CONTENT:

Section A – Lesson Review

- ❑ IFR Takeoff Considerations
- ❑ Power-Off Stalls
- ❑ Power-On Stalls
- ❑ Maneuvering During Slow Flight
- ❑ Recovery From Unusual Flight Attitudes
- ❑ Steep Turns

Section B – Lesson Introduction
Systems and Equipment Malfunctions

- ❑ Emergency Operations (1)
- ❑ Electrical System Failure (2)
- ❑ Loss of Communications (3)
- ❑ Vacuum Pump Failure (4)
- ❑ Gyroscopic Instrument Failure (4)
- ❑ Pitot-Static Instrument Failure (3)

Full Panel Instrument

- ❑ Constant Rate Climbs (5)
- ❑ Constant Rate Descents (6)
- ❑ Timed Turns to Magnetic Compass Headings (7)

Partial Panel Instrument

- ❑ Straight and Level Flight (8)
- ❑ Standard-Rate Turns (8)
- ❑ Change of Airspeed (8)
- ❑ Constant Airspeed Climbs (8)
- ❑ Constant Airspeed Descents (8)
- ❑ Recovery From Unusual Flight Attitudes (9)

- ❑ Timed Turns to Magnetic Compass Headings (8)
- ❑ Magnetic Compass Turns (8)
- ❑ Constant Rate Climbs (8)
- ❑ Constant Rate Descents (8)

COMPLETION STANDARDS:

At the completion of this lesson, the student will begin to recognize and understand the effect of instrument systems and equipment malfunctions, recognize the change in instrument cross-check necessary to maintain aircraft control while using partial panel procedures: altitude +/-200 feet, heading +/- 15 degrees, airspeed +/- 15 knots, and desired climb and descent rate +/- 150 feet per minute.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 3** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	0.5				**1.5**	
Totals						

References:

(1) FAA-H-8083-16A Page A1
(2) FAA-H-8083-15B Page 11-3 to 11-6
(3) FAA-H-8083-15B Page 11-8
(4) FAA-H-8083-15B Page 11-7
(5) FAA-H-8083-15B Page 7-14
(6) FAA-H-8083-15B Page 7-16
(7) FAA-H-8083-15B Page 7-21
(8) FAA-H-8083-15B Chapter 7, Section I
(9) FAA-H-8083-3B Page 4-17
FAA-H-8083-16A Page A3 & A4

FLIGHT LESSON 4 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will review full and partial panel instrument flight by reference to instruments. Additionally, they will be introduced to further maneuvering while flying with a partial panel.

CONTENT:

Section A – Lesson Review
Full and/or Partial Panel Instrument

- ❑ Straight and Level Flight
- ❑ Constant Rate Climbs
- ❑ Constant Airspeed Climbs
- ❑ Constant Rate Descents
- ❑ Constant Airspeed Descents
- ❑ Timed Turns to Magnetic Compass Headings
- ❑ Magnetic Compass Turns
- ❑ Recovery From Unusual Flight Attitudes

Section B – Lesson Introduction
Partial Panel Instrument

- ❑ Maneuvering During Slow Flight (1)
- ❑ Power-Off Stalls (2)
- ❑ Power-On Stalls (3)

COMPLETION STANDARDS:

At the completion of this lesson, the student will use partial panel and full panel instrument reference to recognize the typical indications of stalls, perform correct recovery techniques from stalls and unusual attitudes with minimum loss of altitude. Additionally, flight by reference to the instruments will be maintained: altitude +/-150 feet, heading +/- 10 degrees, airspeed +/- 15 knots, and desired climb and descent rate +/- 100 feet per minute.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

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

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
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 gain an understanding of VOR orientation as well as VOR radial interception and tracking.

CONTENT:

Section A – Lesson Review

- ❑ Radio Communications for IFR Flight
- ❑ Air Traffic Control Clearances and Procedures
- ❑ Flight Instruments and Navigation Equipment
- ❑ Instrument Cockpit Check
- ❑ Straight and Level Flight
- ❑ Change of Airspeed
- ❑ Standard-Rate Turns
- ❑ Situational Awareness

Section B – Lesson Introduction
Navigation Systems - VOR Navigation

- ❑ VOR Equipment Check (1)
- ❑ VOR Orientation (1)
- ❑ VOR Radial Interception and Tracking (1)
- ❑ Intercepting and Tracking DME Arcs (1)

COMPLETION STANDARDS:

At the completion of this lesson, the student will display competency in basic VOR procedures including orientation and radial interception and tracking. Additionally, the student will maintain flight by reference to instruments: altitude +/-100 feet, heading +/- 10 degrees, airspeed +/- 15 knots, and desired climb and descent rate +/- 100 feet per minute.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

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

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

References:
(1) FAA-H-8083-15B Page 9-8 to 9-24

FLIGHT LESSON 6 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will learn to program and use GPS equipment for IFR navigation. Additionally, the student will learn to track localizer front and back courses.

CONTENT:

Section A – Lesson Review
Navigation Systems - VOR Navigation

- ❑ VOR Equipment Check
- ❑ VOR Orientation
- ❑ VOR Radial Interception and Tracking
- ❑ Intercepting and Tracking DME Arcs

Section B – Lesson Introduction
Navigation Systems - GPS Navigation

- ❑ GPS Preflight Check (1)
- ❑ GPS Programming (1)
- ❑ GPS Orientation (1)
- ❑ GPS Course Interception and Tracking (1)
- ❑ Localizer Tracking (Front and Back Course) (2)

COMPLETION STANDARDS:

At the completion of this lesson, the student will display increased competency in basic VOR procedures including orientation and radial interception and tracking. Additionally, the student will demonstrate and understanding of GPS and localizer navigation while maintaining flight by reference to instruments: altitude +/-100 feet, heading +/- 10 degrees, airspeed +/-15 knots, and desired climb and descent rate +/- 100 feet per minute.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 6**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

References:

(1) FAA-H-8083-15B Page 9-24 to 9-34

(2) FAA-H-8083-15B Page 9-35 to 9-43

FLIGHT LESSON 7 – AATD

LESSON OBJECTIVE:

During this lesson, the student will be introduced to ADF equipment and NDB procedures.

CONTENT:

Section A – Lesson Introduction
Navigation Systems - NDB Navigation

- ❑ NDB Orientation and Homing (1)
- ❑ NDB Bearing Interception and Tracking (1)

COMPLETION STANDARDS:

At the completion of this lesson, the student will display competency in basic NDB procedures including orientation, homing, bearing interception, and tracking while maintaining flight by reference to instruments: altitude +/-100 feet, heading +/- 10 degrees, airspeed +/- 15 knots, and desired climb and descent rate +/- 100 feet per minute.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 7**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	0.5				**1**	
Totals						

References:
(1) FAA-H-8083-15B Page 9-3 to 9-8

FLIGHT LESSON 8 – DUAL

LESSON OBJECTIVE:

During the lesson, the student will increase proficiency in flight by reference to instruments while operating with full and partial panel.

CONTENT:

Section A – Lesson Review
Full and/or Partial Panel Instrument

- ❑ Radio Communications for IFR Flight
- ❑ Air Traffic Control Clearances and Procedures
- ❑ Flight Instruments and Navigation Equipment
- ❑ Instrument Cockpit Check
- ❑ Straight and Level Flight
- ❑ Change of Airspeed
- ❑ Standard-Rate Turns
- ❑ Constant Airspeed/Rate Climbs
- ❑ Constant Airspeed/Rate Descents
- ❑ Timed Turns to Magnetic Compass Headings
- ❑ Magnetic Compass Turns
- ❑ Recovery From Unusual Flight Attitudes
- ❑ VOR Navigation
- ❑ Intercepting and Tracking DME Arcs
- ❑ GPS Navigation
- ❑ Localizer Tracking (Front and Back Course)

COMPLETION STANDARDS:

At the completion of this lesson, the student will display increased competency in basic VOR procedures including orientation and radial interception and tracking. Additionally, the student will demonstrate and understanding of GPS and localizer navigation while maintaining flight by reference to instruments: altitude +/-100 feet, heading +/- 10 degrees, airspeed +/-15 knots, and desired climb and descent rate +/- 100 feet per minute.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

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

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

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FLIGHT LESSON 9 – EXAM

LESSON OBJECTIVE:

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

CONTENT:

- ❑ Stage I 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# 1 **LESSON# 9**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
						1
Totals						

FLIGHT LESSON 10 – DUAL

STAGE I CHECK

LESSON OBJECTIVE:

During this stage check, the student will demonstrate proficiency in attitude instrument flying and navigation.

CONTENT:

Section A – Lesson Review

- ❑ Aircraft Systems Related to IFR Flight
- ❑ Flight Instruments and Navigation Equipment
- ❑ Instrument Cockpit Check
- ❑ IFR Takeoff Considerations
- ❑ Straight and Level Flight
- ❑ Change of Airspeed
- ❑ Standard-Rate Turns
- ❑ Constant Airspeed/Rate Climbs
- ❑ Constant Airspeed/Rate Descents
- ❑ Timed Turns to Magnetic Compass Headings
- ❑ Magnetic Compass Turns
- ❑ Recovery From Unusual Flight Attitudes+
- ❑ Emergency Operations
- ❑ Navigation Systems
    - VOR Navigation
    - Intercepting and Tracking DME Arcs
    - GPS Navigation
    - Localizer Tracking (Front and Back Course)
- ❑ Postflight Procedures
- ❑ Checking Instruments and Equipment at Engine Shutdown

COMPLETION STANDARDS:

This lesson and Stage I are complete when the student can demonstrate accurate navigation skill at all times and correct recovery techniques from unusual attitude: altitude +/-100 feet, heading +/- 10 degrees, airspeed +/-15 knots, and desired climb and descent rate +/- 100 feet per minute.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 1 **LESSON# 10**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	0.5	**1.2**		**1**		
Totals						

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STAGE II

STAGE OBJECTIVE:

This stage introduces holding patterns and instrument approaches, including circling and missed approach procedures. The student will learn to correctly perform holding patterns and accurate instrument approaches using full and partial panel techniques.

STAGE COMPLETION STANDARD:

This stage is complete when the student can demonstrate accuracy and proficiency in performing holding patterns and all required instrument approach procedures.

FLIGHT LESSON 11 – AATD

LESSON OBJECTIVE:

During this lesson, the student will increase proficiency with dealing with system and equipment malfunctions. Additionally, the student will become familiar with standard and nonstandard VOR, NDB, GPS, localizer, DME, and intersection holding.

CONTENT:

Section A – Lesson Review

- ❑ Emergency Operations
- ❑ System and Equipment Malfunctions
- ❑ Full and Partial Panel Instrument
- ❑ Air Traffic Control Clearances and Procedures

Section B – Lesson Introduction
Standard and Nonstandard Holding

- ❑ VOR Holding (1)
- ❑ NDB Holding (1)
- ❑ GPS Holding (1)
- ❑ Localizer Holding (1)
- ❑ DME Holding (1)
- ❑ Intersection Holding (1)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate a basic understanding and proficiency in performing VOR, NDB, GPS, localizer, DME, and intersection holding pattern procedures.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 11** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1				**1.5**	
Totals						

References:
(1) FAA-H-8083-15B Page 10-10 to 10-13

FLIGHT LESSON 12 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will increase proficiency with dealing with system and equipment malfunctions. Additionally, the student will increase proficiency with standard and nonstandard VOR, GPS, localizer, DME, and intersection holding.

CONTENT:

Section A – Lesson Review

- ❑ Emergency Operations
- ❑ System and Equipment Malfunctions
- ❑ Full and Partial Panel Instrument
- ❑ Air Traffic Control Clearances and Procedures

Standard and Nonstandard Holding

- ❑ VOR Holding
- ❑ GPS Holding
- ❑ Localizer Holding
- ❑ DME Holding
- ❑ Intersection Holding

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate a basic understanding and proficiency in performing VOR, GPS, localizer, DME, and intersection holding pattern procedures: altitude +/-100 feet, heading +/-10 degrees, airspeed +/-10 knots, and within ¾ scale deflection of the CDI during holding.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 12**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**4**		**3.6**		
Totals						

FLIGHT LESSON 13 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will become familiarized with VOR approach procedures, missed approach procedures, visual descent points, and landing from a straight in approach. Additionally, the student will review holding procedures.

CONTENT:

Section A – Lesson Review

- ❑ Holding Procedures
- ❑ Air Traffic Control Clearances and Procedures

Section B – Lesson Introduction
Instrument Approach Procedures

- ❑ VOR Approaches (1)
- ❑ Visual Descent Point (1)
- ❑ Approach Procedures to Straight-In Landing Minimums (1)
- ❑ Approach Procedures to Circling Landing Minimums (1)
- ❑ Landing from Straight-In or Circling Approach Procedures (1)
- ❑ Missed Approach Procedures (1)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate proficiency in the review maneuvers and a basic understanding in performing VOR approaches, straight-in and circling landings from approaches, and missed approach procedures.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

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

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**1.5**		**1.3**		
Totals						

References:

(1) FAA-H-8083-16A Page 4-69
FAA-H-8083-16A Page 4-39
FAA-H-8083-16A Chapter 4
Refer to VOR navigation reference

FLIGHT LESSON 14 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will become familiarized with GPS approach procedures. Additionally, the student will review VOR approach procedures, straight-in and circling landings from approaches, and missed approach procedures.

Note: The items listed as review will be introduced in this lesson if this lesson is completed before lesson 13.

CONTENT:

Section A – Lesson Review

- ❑ Air Traffic Control Clearances and Procedures
- ❑ Holding Procedures
- ❑ VOR Approaches
- ❑ Visual Descent Point
- ❑ Approach Procedures to Straight-In Landing Minimums
- ❑ Approach Procedures to Circling Landing Minimums
- ❑ Landing from Straight-In or Circling Approach Procedures
- ❑ Missed Approach Procedures

Section B – Lesson Introduction

- ❑ GPS Approaches (1)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate proficiency in the review maneuvers and a basic understanding in performing GPS approaches: altitude +/-200 feet on the initial and intermediate approach segments; on the final approach segment heading +/-10 degrees, airspeed +/-10 knots, within ¾ scale deflection of the CDI, and altitude +100/-0 from the MDA.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 14** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**1.5**		**1.3**		
Totals						

References:

(1) FAA-H-8083-16A Page 4-58
FAA-H-8083-16A Chapter 4

FLIGHT LESSON 15 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will become familiarized with precision approach procedures: ILS and LOC. Additionally, the student will review VOR and GPS approach procedures, straight-in and circling landings from approaches, and missed approach procedures.

CONTENT:

Section A – Lesson Review

- ❑ Air Traffic Control Clearances and Procedures
- ❑ Holding Procedures
- ❑ VOR Approaches
- ❑ Visual Descent Point
- ❑ Approach Procedures to Straight-In Landing Minimums
- ❑ Approach Procedures to Circling Landing Minimums
- ❑ Landing from Straight-In or Circling Approach Procedures
- ❑ Missed Approach Procedures
- ❑ GPS Approaches

Section B – Lesson Introduction

- ❑ Precision Approach Procedures (1)
- ❑ ILS Approaches (1)
- ❑ Localizer (LOC) Approaches (1)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate proficiency in the review maneuvers and a basic understanding in performing ILS and LOC approaches: altitude +/-200 feet on the initial and intermediate approach segments; on the final approach segment heading +/-10 degrees, airspeed +/-10 knots, within ¾ scale deflection of the CDI, and altitude +/-100 feet.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

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

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

References:

(1) FAA-H-8083-16A Page 4-64
FAA-H-8083-16A Chapter 4

FLIGHT LESSON 16 – AATD

LESSON OBJECTIVE:

During this lesson, the student will become familiarized with NDB and LOC back course approaches. Additionally, the student will review VOR, GPS, ILS, and LOC approach procedures, straight-in and circling landings from approaches, missed approach procedures and holding procedures.

CONTENT:

Section A – Lesson Review

- ❑ Air Traffic Control Clearances and Procedures
- ❑ Holding Procedures
- ❑ VOR Approaches
- ❑ Visual Descent Point
- ❑ Approach Procedures to Straight-In Landing Minimums
- ❑ Approach Procedures to Circling Landing Minimums
- ❑ Landing from Straight-In or Circling Approach Procedures
- ❑ Missed Approach Procedures
- ❑ GPS Approaches
- ❑ Precision Approach Procedures
- ❑ ILS Approaches
- ❑ LOC Approaches

Section B – Lesson Introduction

- ❑ NDB Approaches (1)
- ❑ LOC Back Course Approaches (2)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate proficiency in the review maneuvers and a basic understanding in performing NDB and LOC back course approaches: altitude +/-200 feet on the initial and intermediate approach segments; on the final approach segment heading +/-10 degrees, airspeed +/-10 knots, within ¾ scale deflection of the CDI, and altitude +100/-0 from the MDA.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 16**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1				**2**	
Totals						

References:

(1) FAA-H-8083-16A Page 4-69
FAA-H-8083-16A Chapter 4

(2) FAA-H-8083-16A Page 4-64
FAA-H-8083-16A Chapter 4

FLIGHT LESSON 17 – DUAL

LESSON OBJECTIVE:

During this lesson, the student will become familiarized with emergency operations to include partial panel approaches, no gyro approaches and partial panel missed approach procedures. Additionally, the student will review VOR, GPS, ILS, and LOC approach procedures, straight-in and circling landings from approaches, missed approach procedures, intercepting and tracking DME Arcs, and air traffic control clearances and clearances.

CONTENT:

Section A – Lesson Review

- ❑ Air Traffic Control Clearances and Procedures
- ❑ VOR Approaches
- ❑ GPS Approaches
- ❑ ILS Approaches
- ❑ LOC Approaches
- ❑ Landing from Straight-In or Circling Approach Procedures
- ❑ Missed Approach Procedures
- ❑ Intercepting and Tracking DME Arcs

Section B – Lesson Introduction

- ❑ Emergency Operations (1) (2)
- ❑ Partial Panel Approaches (1)
- ❑ No Gyro Approaches (1)
- ❑ Missed Approach Procedures – Partial Panel (1)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate proficiency in the review maneuvers and a basic understanding in performing partial panel and no gyro approaches: altitude +/-200 feet on the initial and intermediate approach segments; on the final approach segment heading +/-10 degrees, airspeed +/-10 knots, within ¾ scale deflection of the CDI, and altitude +100/-0 from the MDA.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

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

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

References:

(1) FAA-H-8083-16A Page A-1
FAA-H-8083-16A Chapter 4
(2) FAA-H-8083-15B Chapter 11

FLIGHT LESSON 18 – DUAL

LESSON OBJECTIVE:

During this lesson the student will review instrument approach procedures and holding procedures in preparation for the stage check.

Note: This lesson will take two flights minimum to complete.

CONTENT:

Section A – Lesson Review

- ❑ Air Traffic Control Clearances and Procedures
- ❑ Holding Procedures
- ❑ VOR Approaches
- ❑ GPS Approaches
- ❑ ILS Approaches
- ❑ LOC Approaches
- ❑ Landing from Straight-In or Circling Approach Procedures
- ❑ Missed Approach Procedures
- ❑ Partial Panel Approaches

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate proficiency in the review maneuvers: altitude +/-100 feet on the initial and intermediate approach segments; on the final approach segment heading +/-10 degrees, airspeed +/-10 knots, within ¾ scale deflection of the CDI, and altitude +100/-0 from the MDA or +/-100 feet on precision approach.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 18** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	2	**4**		**3**		
Totals						

FLIGHT LESSON 19 – DUAL XC

LESSON OBJECTIVE:

During this lesson the student will perform approaches at an airport other than the home airport. Suggested airports are Tricities KPSC, Pendleton KPDT, and Richland KRLD.

This mini-cross country should be completed on an IFR flight plan. This will be a brief introduction to IFR flight planning and filing.

CONTENT:

Section A – Lesson Review

- ❑ Air Traffic Control Clearances and Procedures
- ❑ Holding Procedures
- ❑ VOR Approaches
- ❑ GPS Approaches
- ❑ ILS Approaches
- ❑ LOC Approaches
- ❑ Landing from Straight-In or Circling Approach Procedures
- ❑ Missed Approach Procedures
- ❑ Partial Panel Approaches

Section B – Lesson Introduction

- ❑ IFR Flight Planning (1)
- ❑ IFR Clearances (1)
- ❑ IFR Enroute Procedures (1) (2)

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate proficiency in the review maneuvers: altitude +/-100 feet on the initial and intermediate approach segments; on the final approach segment heading +/-10 degrees, airspeed +/-10 knots, within ¾ scale deflection of the CDI, and altitude +100/-0 from the MDA or +/-100 feet on precision approach.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 19** **HOMEWORK COMPLETE?**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2.3**		**2.1**		
Totals						

References:

(1) FAA-H-8083-15B Chapter 10

(2) FAA-H-8083-16A Chapter 2

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FLIGHT LESSON 20 – 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# 20**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
						1
Totals						

FLIGHT LESSON 21 – DUAL

STAGE II CHECK

LESSON OBJECTIVE:

This stage check will be conducted by an aviation faculty or a designated instructor and will evaluate the student's proficiency in the proper execution of holding patterns and instrument approach procedures.

CONTENT:

Section A – Lesson Review

- ❑ Air Traffic Control Clearances and Procedures
- ❑ Holding Procedures
- ❑ VOR Approaches
- ❑ GPS Approaches
- ❑ ILS Approaches
- ❑ LOC Approaches
- ❑ Landing from Straight-In or Circling Approach Procedures
- ❑ Missed Approach Procedures
- ❑ Emergency Operations
- ❑ Partial Panel Approaches

COMPLETION STANDARDS:

The student will demonstrate instrument pilot proficiency, as outlined in the FAA Instrument Rating Airman Certification Standards, in each of the listed procedures.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 2 **LESSON# 21**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

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STAGE III

STAGE OBJECTIVE

During this stage, the student will be introduced to IFR cross-country procedures as they increase their proficiency to the level required of an instrument rated pilot.

STAGE COMPLETION STANDARD

This stage is complete when the student can demonstrate all IFR maneuvers and procedures at the proficiency level of an instrument rated pilot as outlined in the FAA Instrument Rating - Airplane Airman Certification Standards.

FLIGHT LESSON 22 – DUAL XC

LESSON OBJECTIVE:

During this lesson, the student will be introduced to IFR cross-country procedures by conducting an IFR cross-country to include IFR flight planning, departure, enroute, and arrival procedures. Additionally, the student should develop an understanding of the appropriate emergency procedures for enroute IFR operations.

CONTENT:

Section A – Lesson Review
Approach Procedures

- ❑ VOR Approaches (As Appropriate)
- ❑ GPS Approaches (As Appropriate)
- ❑ ILS Approaches (As Appropriate)
- ❑ Localizer Approaches (As Appropriate)
- ❑ Missed Approach Procedures
- ❑ Partial Panel Approaches

Section B - Introduction
IFR Cross-Country Flight Planning (1)

- ❑ Weather Information Related to IFR Cross-Country Flight
- ❑ Aircraft Performance, Limitations, and Systems Related to IFR Cross-Country
- ❑ Enroute Chart Interpretation
- ❑ Navigation Log and Flight Plan Completion
- ❑ Filing an IFR Flight Plan

ATC Clearance (1)

- ❑ Obtaining an IFR Clearance
- ❑ Departure Procedures and Clearances
- ❑ Use of SIDs and ODPs

IFR Cross-Country Flight (1)

- ❑ VOR Navigation
- ❑ GPS Navigation
- ❑ Calculating ETEs and ETAs

- ❑ Use of Radar
- ❑ Radio Communications
- ❑ Enroute Procedures and Clearances
- ❑ Arrival Procedures and Clearances
- ❑ Use of Standard Terminal Arrivals (STARs)
- ❑ Holding Procedures
- ❑ Canceling an IFR Flight Plan
- ❑ Single-Pilot-Resource Management
- ❑ Aeronautical Decision Making

Simulated Emergency Procedures (1)

- ❑ Emergency Operations
- ❑ Loss of Communications
- ❑ Loss of Primary Flight Instrument Indicators
- ❑ Partial Panel Flight
- ❑ System and Equipment Malfunctions
- ❑ Structural and Induction Icing
- ❑ Turbulence
- ❑ Diversion
- ❑ Low Fuel Supply
- ❑ Engine Failure

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate knowledge of the procedures involved in cross-country flight planning, filing an IFR flight plan, and obtaining IFR clearances. Additionally, they will demonstrate a basic understanding of the various simulated emergency procedures.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 22** **HOMEWORK COMPLETE?** **Y / N**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	2	**2.5**	**2.5**	**2.3**		
Totals						

References:

(1) FAA-H-8083-15B Chapter 10

FLIGHT LESSON 23 – DUAL XC

LESSON OBJECTIVE:

During this flight, the student will demonstrate proficiency in planning and conduct a long IFR cross-country flight. The student will demonstrate understanding and utilization of IFR departure, enroute, and arrival procedures. Additionally, they will increase proficiency in dealing with emergency situations, effective resource management, and decision making skills for IFR operations. The flight must:

- Be conducted in the category and class of airplane that the course is approved for, and is performed under IFR
- Is a distance of at least 250 nautical miles along airways or ATC directed routing with one segment of the flight consisting of at least a straight-line distance of 100 nautical miles between airports.
- Involves an instrument approach at each airport; and
- Involves three different kinds of approaches with the use of navigation systems.

CONTENT:

Section A – Lesson Review

Approach Procedures

- ❑ VOR Approaches (As Appropriate)
- ❑ GPS Approaches (As Appropriate)
- ❑ ILS Approaches (As Appropriate)
- ❑ Localizer Approaches (As Appropriate)
- ❑ Missed Approach Procedures
- ❑ Partial Panel Approaches

IFR Cross-Country Flight Planning

- ❑ Weather Information Related to IFR Cross-Country Flight
- ❑ Aircraft Performance, Limitations, and Systems Related to IFR Cross-Country
- ❑ Enroute Chart Interpretation
- ❑ Navigation Log and Flight Plan Completion
- ❑ Filing an IFR Flight Plan

ATC Clearance

- ❑ Obtaining an IFR Clearance
- ❑ Departure Procedures and Clearances
- ❑ Use of SIDs and ODPs

IFR Cross-Country Flight

- ❑ VOR Navigation
- ❑ GPS Navigation
- ❑ Calculating ETEs and ETAs
- ❑ Use of Radar
- ❑ Radio Communications
- ❑ Enroute Procedures and Clearances
- ❑ Arrival Procedures and Clearances
- ❑ Use of Standard Terminal Arrivals (STARs)
- ❑ Holding Procedures
- ❑ Canceling an IFR Flight Plan
- ❑ Single-Pilot-Resource Management
- ❑ Aeronautical Decision Making

Simulated Emergency Procedures

- ❑ Emergency Operations
- ❑ Loss of Communications
- ❑ Loss of Primary Flight Instrument Indicators
- ❑ Partial Panel Flight
- ❑ System and Equipment Malfunctions
- ❑ Structural and Induction Icing
- ❑ Turbulence
- ❑ Diversion
- ❑ Low Fuel Supply
- ❑ Engine Failure

COMPLETION STANDARDS:

At the completion of this lesson, the student should demonstrate instrument pilot knowledge and proficiency, as outlined in the FAA Instrument Rating - Airplane Airman Certification Standards.

Note:

This flight lesson is designed to meet the IFR cross-country flight training requirements of 14 CFR 61.65 (e)(ii)(A-C).

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 23**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	2	**4**	**4**	**3**		
Totals						

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FLIGHT LESSON 24 – 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# 24**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
						1
Totals						

FLIGHT LESSON 25 – DUAL

END OF COURSE CHECK

LESSON OBJECTIVE:

This lesson is the end of course check and will be conducted by an aviation faculty or a designated instructor. During this lesson the student must demonstrate knowledge and proficiency in all tasks to a level required by the FAA Instrument Rating - Airplane 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 test.

Note:

The person conducting this end of course check is not required to cover the material in the order indicated, as long as all required material is covered.

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 test:

S	U	
❑	❑	Positive Aircraft Control
❑	❑	Positive Exchange of Flight Controls Procedure
❑	❑	Stall/Spin Awareness
❑	❑	Collision Avoidance
❑	❑	Wake Turbulence Avoidance
❑	❑	Land and Hold Short Operations
❑	❑	Runway Incursion Avoidance
❑	❑	Controlled Flight Into Terrain (CFIT)
❑	❑	Aeronautical Decision Making (ADM) and Risk Management

S U

❑❑ Checklist Usage

❑❑ Single Pilot Resource Management

❑❑ Icing condition operational hazards, anti-icing and deicing equipment, differences, and approved use and operations

❑❑ Any other areas deemed appropriate

AREAS OF OPERATION (AOs):

Section I – Preflight Preparation

S U

❑❑ Pilot Qualifications

❑❑ Weather Information

❑❑ Cross Country Flight Planning

Section II – Preflight Procedures

S U

❑❑ Aircraft Systems Related to IFR Operations

❑❑ Aircraft Flight Instruments and Navigation Equipment

❑❑ Instrument Cockpit Check

Section III – Air Traffic Control Clearances and Procedures

S U

❑❑ Air Traffic Control Clearances

❑❑ Compliance with Departure, En Route, and Arrival Procedures and Clearances

❑❑ Holding Procedures

Section IV – Flight by Reference to Instruments

S U

❑❑ Basic Instrument Flight Maneuvers

❑❑ Recovery from Unusual Flight Attitudes

Section V – Navigation Systems

S U

❑❑ Intercepting and Tracking Navigational Systems and DME Arcs

Section VI – Instrument Approach Procedures

S	U	
❑	❑	Nonprecision Approach
❑	❑	Precision Approach
❑	❑	Missed Approach
❑	❑	Circling Approach
❑	❑	Landing from a Straight-in or Circling Approach

Section VII – Emergency Operations

S	U	
❑	❑	Loss of Communications
❑	❑	Loss of Primary Flight Instrument Indicators

Section VIII – Postflight Procedures

S	U	
❑	❑	Checking Instruments and Equipment

COMPLETION STANDARDS

The student will demonstrate proficiency in strict accordance with the Instrument Rating - Airplane Airman Certification Standards.

Record Keeping

STUDENT: _____

INSTRUCTOR: _____ **CERT#** _____

STAGE# 3 **LESSON# 25**

DATE	DUAL GRND	DUAL	DUAL XC	INST DUAL	AATD	EXAM
	1	**2**		**1.8**		
Totals						

STAGE IV

STAGE OBJECTIVE

During this stage, the student complete 40 hours of cross-country flight time to meet the requirements of the instrument rating. Repeat flights cannot be counted. For example, ALW-GEG-ALW could only be counted once. However ALW-GEG-PSC-ALW could be counted separately. Students must conduct one flight to a Class C airport and one flight in excess of 200 NM from Walla Walla Regional Airport (KALW).

STAGE COMPLETION STANDARD

This stage is completed without the aid of a flight instructor. The student must complete the 40 hours of cross-country time and submit a flight report as indicated on the Walla Walla University Course Syllabus.

FLIGHT LESSON 26 – CROSS-COUNTRY

LESSON OBJECTIVE:

The objective of this lesson is to complete the required cross-country flight time required for the Instrument Rating - Airplane.

CONTENT:

- ❑ Cross-Country Flight Operations
- ❑ Class C Airport Operations
- ❑ Long Distance (200NM+) Flights

COMPLETION STANDARDS:

The student should complete 40 hours of cross-country flight, including a flight to a Class C airport and a flight in excess of 200 NM. All flights should be recorded here as well as on any applicable flight logs for the academic course.

DATE	ROUTE OF FLIGHT	FLIGHT TIME
		40

Totals		