FAR Part 61

Private Pilot Flight School Syllabus

Student:_____

Foreword

This syllabus is designed to provide a structured and organized series of stages and lessons to help you obtain the necessary flight experience and prepare for your private pilot check ride. Although not required, it is strongly recommended that you follow the syllabus in its presented order to help keep your learning structured and in logical order. There are three stages to this syllabus, each stage contains lessons designed to present new material, build flight proficiency and meet the objectives of each individual stage. Remember, a lot of it depends on individual study and review of previously learned material.

Study Tips

✔ Prior to the lesson, review the items that will be covered by reading the material related to the lesson, looking up "how to" videos, talk to other pilots etc.…

✔ Before the lesson sit down with your instructor and do pre-flight discussion on the items covered in the lesson
✔ Pay close attention to the items demonstrated during the flight. If you are feeling sick or unable to focus, don't go flying. Save your money for a good day.
✔ After the flight, do a post flight discussion on the items covered and get all your questions answered. Write down any pointers that the instructor provides to make your learning more efficient.
✔ If you are still unsure about anything, don't hesitate to bring this up with your instructor, get together with the instructor or give him/her a phone call. We love answering your questions and we want to see you succeed.
✔ Continue to mentally go over the maneuvers or practice them in the simulator. Remember, the better you understand a maneuver or a procedure the easier it is to do it in the aircraft.
✔ Try to fly as often as you can, keep those skills fresh.

CONTENTS

STAGE OBJECTIVES & COMPLETION STANDARDS

STAGE I. AVIATION FOUNDATIONS

OBJECTIVES: Introduce the fundamentals of flying to provide a foundation to continue to build upon. With the use of the Airmen Certification Standards the student will understand key learning blocks that will allow them to work both on the ground and in the plane to reach certification standards.

COMPLETION STANDARDS: Demonstrate knowledge on PAVE, including pilot privileges, airworthiness, preflight action, weight and balance and performance charts. Demonstrate knowledge on aircraft systems. Demonstrate knowledge on emergency operations. Demonstrate proper entry, execution, and recovery of required flight maneuvers. Demonstrate good use of judgment and aeronautical decision making to conduct safe flights and be able to make proper go and no-go decisions.

STAGE II. CROSS COUNTRY, EMERGENCIES, and NIGHT FLYING

OBJECTIVES: Introduce abnormal flight operations. Introduce flying with reference solely to instruments, reduced visibility, and night time. Introduce various other types of landings. Provide instruction and practice necessary to develop knowledge, planning skills, and proficiency in cross country flight.

COMPLETION STANDARDS: Demonstrate short field and soft field landings to ACS standards. Perform proper unusual attitude recovery. Demonstrate knowledge and perform proper emergency operations and their recovery. Demonstrate VFR flight planning including pilotage, dead reckoning, lost communication, and diversion procedures. Demonstrate knowledge on night illusions and different characteristics of night time flying.

STAGE III. SOLO AND CHECKRIDE

OBJECTIVES: Have students complete their solo requirements. Have CFI and students review personal minimums and limitations. Improve single pilot resource management. Have student and CFI review all subjects from previous training in reference to the ACS to prepare for the checkride.

COMPLETION STANDARDS: Student successfully completes solo requirements including cross country and maneuver practice. Student demonstrates proficiency in all areas required by the ACS determined by an alternate CFI other than their primary in order to be signed off for the checkride.

PRIVATE PILOT - FAR PART 61 CERTIFICATION REQUIREMENT SUMMARY

AERONAUTICAL KNOWLEDGE 14 CFR § 61.105 AIRPLANE SINGLE ENGINE LAND

Receive and log ground training from an authorized CFI and complete an at home or in person ground school course on the following aeronautical knowledge topics

- ☐ Federal Aviation Regulations
  - ☐ Private pilot privileges
  - ☐ Limitations
  - ☐ Flight operations
- ☐ NTSB accident reporting
- ☐ Aeronautical Information Manual
- ☐ FAA advisory circulars
- ☐ Aeronautical Charts
  - ☐ VFR navigation
  - ☐ Pilotage
  - ☐ Dead Reckoning
  - ☐ Navigation Systems
- ☐ Radio Communication Procedures
- ☐ Aeronautical Weather
  - ☐ Ground and flight critical weather recognition
  - ☐ Windshear avoidance
  - ☐ Weather reports and forecasts
- ☐ Safe operation of aircraft
  - ☐ Collision avoidance
  - ☐ Wake turbulence
- ☐ Density Altitude
  - ☐ Take off and climb performance
- ☐ Weight and balance computations
- ☐ Principles of aerodynamics
- ☐ Aircrafts systems
  - ☐ Powerplant
  - ☐ Instruments
    - ☐ Glass and/or 6 pack
- ☐ Preflight action
  - ☐ NWKRAFT 91.103

AERONAUTICAL EXPERIENCE 14 CFR § 61.109 AIRPLANE SINGLE ENGINE LAND

Receive and log a minimum of 40 hours dual and solo flight training on the following areas of operation. § 61.107

- ☐ Preflight preparation
- ☐ Preflight procedures
- ☐ Airport operations
- ☐ Takeoffs, landings, and go-arounds
- ☐ Performance maneuvers
- ☐ Ground reference maneuvers
- ☐ Navigation
- ☐ Slow flight and stalls
- ☐ Basic instrument maneuvers
- ☐ Emergency operations
- ☐ Night operations
- ☐ Postflight procedure

Complete a minimum of 20 hours from an authorized CFI including

- ☐ 3 hours of flight maneuvering based solely on instruments
- ☐ 3 hours of cross country flying
- ☐ **3 hours of night flying including**
    - ☐ One cross country over 100 nautical miles total distance
    - ☐ 10 take off and landings from a traffic pattern and to a full stop
- ☐ 3 hours of checkride preparation within 2 preceding months of the test

Complete a minimum of 10 hours of solo flight time including

- ☐ 5 hours of solo cross country
- ☐ 1 solo cross country with at least 150 nautical miles
    - ☐ 3 full stop landings with traffic patterns and operating towers
    - ☐ One leg greater than 50 nautical miles

Checklist before first meeting

- ☐ Have student and instructor reach out to each other
    - ☐ Introductions
    - ☐ Any prerequisite reading or documents
        - ☐ Reference Reading Appendix
- ☐ Have student look at NWFS website
    - ☐ SOP's
    - ☐ How to become a pilot document
    - ☐ Ground school schedule and syllabus
    - ☐ Rentals
    - ☐ How much does it cost
    - ☐ Rate sheet
- ☐ Have student bring in documentation
    - ☐ ID
    - ☐ Passport or birth certificate
    - ☐ *Medical*
    - ☐ *Pilot certificate*

On day of first meeting

- ☐ Go over welcome packet
    - ☐ Flight physicals
    - ☐ New customer sheet
    - ☐ Sign SOP's
        - ☐ Go over payment policy
        - ☐ Late policy
        - ☐ Weather minimums
        - ☐ Practice area chart
        - ☐ Other key points if they didn't read before
- ☐ Scan in documents
- ☐ Go over flight scheduler pro

Reading Appendix

ACS (Airman Certification Standards)

The ACS document provides information on aeronautical knowledge, risk management and flight proficiency standards for all students, instructors and DPEs.

PHAK (Pilot's Handbook of Aeronautical Knowledge)

The PHAK provides information on weather, aircraft systems, principles of flight and more. It is a great resource to help pilots and instructors refresh their knowledge and learn new information.

AFH (Airplane Flying Handbook)

The AFH provides detailed knowledge on airplane piloting skills. It lists how to perform all required maneuvers and includes procedures to transition to different aircraft.

POH (Pilot Operating Handbook)

The POH provides information on all aircraft operations, limitations, emergencies, weight and balance, performance, and airplane description about the aircraft

FAR/AIM (Federal Aviation Regulations/Aeronautical information manual)

The FAR/AIM provides information on all regulations of aircraft such as how to get a license, how to lose your license, commercial operations, etc. This book goes very in depth with all kinds of knowledge.

For better use, Make sure to thoroughly read the ACS, for this is what you will be tested on when having a checkride. The ACS gives detailed information on what to study and what to look out for when flying with an instructor or DPE. The PHAK and AFM give great tips and information to further your knowledge as a pilot. It is highly recommended to read these books to become a safer and more competent pilot. The FAR/AIM is a great resource to look up any regulations concerning your rating/flight/weather conditions and more. ALL pilots should become familiar with these books to remember some key information before going out to go fly.

Stage 1 Ground Topic Overview
Aviation Foundations

Prerequisite study: Read chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14 in Pilot's Handbook of Aeronautical Knowledge. Chart supplement. Airplane Flying Handbook for the four fundamentals, traffic pattern, performance, and ground reference maneuvers. Read the entire Pilot Operating Handbook for your specific aircraft. Read FAR/AIM for PAVE regulations.

Objective: To introduce knowledge on the basic foundations of aviation. These should be discussed throughout stage 1 where practical and on bad weather days.

Pilots Handbook of Aeronautical Knowledge

- ☐ **Runway incursion avoidance**
- ☐ **Collision avoidance**
- ☐ **Airport operations**
  - ☐ Airport markings
  - ☐ Airport lighting
    - ☐ Light gun signals
- ☐ **Aircraft construction**
- ☐ **Aircraft systems**
- ☐ **Aircraft flight controls**
  - ☐ Primary vs secondary
- ☐ **Aircraft instruments**
  - ☐ Steam- Cessna
  - ☐ Glass- Cirrus
- ☐ **Four forces**
  - ☐ Lift production and AoA
  - ☐ Airfoils and wing planform
  - ☐ Wing design
  - ☐ L/D ratio
  - ☐ Parasite vs Induced drag
  - ☐ Wingtip vortices
  - ☐ Wake turbulence
  - ☐ Ground effect
  - ☐ Aircraft axes
- ☐ **Stability**
- ☐ **Weight and CG location**
- ☐ **Left turning tendencies**
- ☐ **Aircraft loading**
- ☐ **Performance**

Chart Supplement

- ☐ Airport diagrams
- ☐ Hot spots

Airplane Flying Handbook

- ☐ Four fundamentals
- ☐ Take off and Landings
- ☐ Go Arounds
- ☐ Slip to Lands
- ☐ Slow flight
- ☐ Power Off/On stalls
- ☐ Steep turns
- ☐ Emergency procedures

Pilot Operating Handbook

- ☐ Limitations
  - ☐ Airspeeds
  - ☐ Weights
- ☐ Take off, Landing, Climb, Cruise Operations
- ☐ Emergency in flight engine failure
- ☐ Go Around Procedures
- ☐ Weight and balance
- ☐ Performance charts
- ☐ Airplane description

FAR/AIM

- ☐ PAVE
- ☐ Airport markings and lighting
- ☐ Radio communications

Stage 1 Lesson 1: Sim and Ground

Intro SIM and Runway Situational Awareness

Prerequisite study: Reference assigned reading from stage 1 ground topic overview for airport operations, runway incursion avoidance, and radio communications. ERAU youtube video OR cirrus training video on taxi, straight and level, takeoffs and landings, climbs, descents, turns
Objective: To introduce and demonstrate the basic fundamentals of flying including straight and level, climbs, descents and turns. Student will also become familiar with learning how to taxi using the sim. REPEAT AS NEEDED: APPROXIMATELY 2 TIMES

Knowledge Areas

- ☐ Runway incursion avoidance
  - ☐ Situational awareness
- ☐ Runway diagrams
- ☐ Chart supplement
  - ☐ How to read
  - ☐ Hot spots
- ☐ Safety Briefing Discussion

Sim Tasks

- ☐ How to turn on SIM and set it up
  - ☐ Plane model
  - ☐ Instrument stack
  - ☐ Location and time
- ☐ Introduction to flight controls
- ☐ Introduction to instruments
- ☐ Checklist
  - ☐ Engine start
  - ☐ Setting up and understanding comms
    - ☐ Introduction to ATIS/AWOS
  - ☐ Setting up and understanding GPS
- ☐ Taxiing- how to
  - ☐ Airport markings and lights
  - ☐ Introduction to beginning radio calls
  - ☐ leaning
- ☐ Run up checklist
- ☐ Take off
  - ☐ Introduction to after take off checklist
- ☐ Four fundamentals
  - ☐ Introduction to cruise checklist
- ☐ Going back to the airport
  - ☐ Descent checklist
- ☐ Traffic pattern
  - ☐ Entry
  - ☐ Airspeed and flap settings
- ☐ Landing
  - ☐ Before landing checklist
  - ☐ VASI/PAPI
  - ☐ Flare

Completion standards: Student was able to become familiar with the simulator and was able to use the sim to learn basic maneuvers. Student understands the foundational blocks to runway incursion avoidance and runway information. Student used proper use of checklists, became familiar with traffic patterns, and learned takeoffs and landings

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement

Name/Signature_____

Notes:

Stage 1 Lesson 2: Sim and Ground

Sim, PAVE, Preflight inspection

Prerequisite study: Read POH weight and balance and performance section. Read chapter 2 of PHAK. Reference assigned reading from stage 1 ground topic overview. ERAU youtube video OR cirrus training video on taxi, straight and level, takeoffs and landings, climbs, descents, turns and slow flight. Review the safety briefing script

Objective: To demonstrate knowledge of the airplane systems and instruments. For student to show their basic knowledge of aviation fundamentals. To perform a thorough preflight inspection of the airplane. For student to become familiar with PAVE in preparation for their first flight.

Knowledge Areas

- ☐ Systems and instruments: reference ACS
  - ☐ Steam for Cessna
  - ☐ Glass for Cirrus
- ☐ Weather
  - ☐ Walk them through a briefing, further understanding in Stage 2
- ☐ PAVE
  - ☐ Weight and balance
  - ☐ Performance

Sim Tasks

- ☐ Start Up
  - ☐ Safety Briefing
  - ☐ Checklists
- ☐ Taxi
  - ☐ Radio calls
- ☐ Run up checklists
- ☐ Exit airspace
- ☐ Four fundamentals
- ☐ Optional: slow flight
- ☐ Traffic pattern
  - ☐ Descent checklist
- ☐ Landings
  - ☐ Before landing checklist
  - ☐ VASI/PAPI
  - ☐ Flare

Flight Tasks

- ☐ Do a thorough walk around preflight of aircraft

Completion standards: Student was able to become familiar with a thorough preflight inspection using a checklist for the specific aircraft. Student was able to use the simulator and become familiar with glass and/or steam gauge instruments. Student used proper checklists from engine start-up to taxi to shutdown. Student becomes familiar with the airspace and four fundamentals of flight. Student becomes familiar with comms.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement

Name/Signature_____

Notes:

Stage 1 Lesson 3: Flight

PAVE, Preflight, Four Fundamentals

Prerequisite study: POH for airspeeds, review weight and balance and performance. Reference assigned reading from stage 1 ground topic overview. Watch Cirrus Approach Maneuvers course for Aero Demo.

Objective: To have student perform and demonstrate the four fundamentals and optional slow flight. Student will be able to pull up airport diagrams effectively and review it after taxi instructions are received. Student will get familiar with practicing calls and the use of positive exchange of controls and how to lean. Student will get familiar with preflight inspection and checklist usage.

Knowledge areas

- ☐ PAVE

Flight Tasks

- ☐ Preflight inspection
- ☐ Start Up
  - ☐ Checklist
    - ☐ Safety briefing
    - ☐ Positive exchange of flight controls
  - ☐ Comm set up
  - ☐ GPS set up
- ☐ Taxi
  - ☐ Use of airport diagram
  - ☐ Radio calls
  - ☐ Leaning
- ☐ Proper run up
- ☐ Take off
  - ☐ After take off checklist
- ☐ Cruise checklist
- ☐ Four fundamentals
- ☐ Aero Demo: reference Cirrus Maneuvers Course
- ☐ Optional: Slow flight
- ☐ Traffic scanning
- ☐ Descent checklist
  - ☐ Radio calls
- ☐ Traffic pattern entry
- ☐ Landing
  - ☐ Before landing checklist

Completion standards: Student was able to become familiar with preflight inspections using the checklist specific to that aircraft. The student became familiar with positive exchange of controls, taxi diagrams, comms, leaning, and optional slow flight. Student uses checklists effectively. Student becomes familiar with comms and gets used to comm and GPS set up

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

Stage 1 Lesson 4: Ground and SIM

Pilot Edge

ALL PILOT EDGE LESSONS ARE DUAL

Prerequisite study: Look at pilot edge website. PHAK chapter 15. Reference assigned reading from stage 1 ground topic overview. **Review each CAT rating page before the correlating lesson, read the script and video.**

Objective: Student will gain the necessary understanding to use Pilot Edge. CFI and student will work through all of the CAT ratings. Repeat lesson until ratings are complete. Optional, finish CAT ratings before next flight lesson, or alternate between pilot edge lessons and flight lessons.

Knowledge Areas

- ☐ https://www.pilotedge.net/
  - ☐ CAT ratings
- ☐ Airspace discussion

SIM Tasks

- ☐ How to log on
- ☐ Work through CAT 1-11

Completion standards: Student will have a beginning understanding of the NAS. Student will be able to navigate the pilot edge website and complete each CAT rating.

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

Stage 1 Lesson 5: Flight

Slow flight, Steep Turns, Power ON/OFF Stalls

Prerequisite study: ERAU youtube video OR Cirrus course videos on Steep Turns, Power on stalls, power off stalls. Read maneuvers in AFH. Read Go Around procedure in POH. Reference assigned reading from stage 1 ground topic overview

Objective: Student is introduced to performance maneuvers and go arounds. Performance maneuver introductions are continued into lesson 6 as well.

Knowledge areas

- ☐ PAVE
- ☐ Maneuver discussion
- ☐ Spin awareness
- ☐ Go Arounds

Flight Taks

- ☐ Preflight inspection
- ☐ Start Up
  - ☐ Checklist
    - ☐ safety briefing
    - ☐ Positive exchange of flight controls
  - ☐ Comm set up
  - ☐ GPS set up
- ☐ Taxi
  - ☐ airport diagram
  - ☐ Leaning
- ☐ Proper run up
- ☐ Take off
  - ☐ After take off checklist
- ☐ Cruise checklist
- ☐ Four fundamentals
- ☐ **Slow flight**
- ☐ **Steep Turns**
- ☐ **Power ON Stalls**
- ☐ **Power OFF Stalls**
- ☐ Traffic scanning
- ☐ Descent checklist
  - ☐ Radio calls
- ☐ Traffic pattern entry
- ☐ Landing: 1 to full stop
  - ☐ Before landing checklist
  - ☐ **DEMO: Go Arounds**

Completion standards: Student is able to perform +/-200 ft from altitude and +/- 15 knots on slow flight, steep turns, power off and power on stalls. Student is able to understand when to do a go around and proper go around procedure.

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

Stage 1 Lesson 6: Flight

Slow flight, Steep Turns, Power ON/OFF Stalls, Alternate Landings

Prerequisite study: ERAU youtube video OR Cirrus course videos on Steep Turns, Power on stalls, power off stalls. Read maneuvers including crosswind taxi/landing and intentional slip to lands in AFH. Reference assigned reading from stage 1 ground topic overview

Objective: To continue practicing maneuvers from lesson 5. Introduce crosswind landings and slip to lands.

Knowledge areas

- ☐ PAVE
- ☐ Maneuver discussion
- ☐ Crosswind taxi and landing: wind discussion
- ☐ Slip to land

Flight Taks

- ☐ Preflight inspection
- ☐ Start Up
  - ☐ Checklist
    - ☐ safety briefing
    - ☐ Positive exchange of flight controls
  - ☐ Comm set up
  - ☐ GPS set up
- ☐ Taxi
  - ☐ airport diagram
  - ☐ Leaning
- ☐ Proper run up
- ☐ Take off
  - ☐ After take off checklist
- ☐ Cruise checklist
- ☐ Four fundamentals
- ☐ **Slow flight**
- ☐ **Steep Turns**
- ☐ **Power ON Stalls**
- ☐ **Power OFF Stalls**
- ☐ Traffic scanning
- ☐ Descent checklist
  - ☐ Radio calls
- ☐ Traffic pattern entry
- ☐ Landing
  - ☐ Before landing checklist
  - ☐ **Demo: Go Around**

Completion standards: Student was able to do preflight with little to no help. Student is able to perform +/-200 ft from altitude and +/- 15 knots on slow flight, steep turns, power off and power on stalls. Student is able to demonstrate proper crosswind landings and slip to lands.

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

Stage 1 Lesson 7: Flight
Ground Reference Maneuvers and Emergency Intro

Prerequisite study: AFM chapter 6 pages (6-1 up to page 6-10) ERAU youtube video on maneuvers or Clrrus course video. POH chapter 3 emergencies engine failure. Ground Reference in AFH. Reference assigned reading from stage 1 ground topic overview

Objective: Student will be introduced to maneuvers; S-Turns, Turns around a point and rectangular course. Student will demonstrate 3 methods to find wind direction and choose a proper altitude.

Knowledge areas

- ☐ PAVE
- ☐ Maneuver discussion
- ☐ Emergency discussion

Flight Taks

- ☐ Preflight inspection
- ☐ Start Up
  - ☐ Checklist
    - ☐ safety briefing
    - ☐ Positive exchange of flight controls
  - ☐ Comm set up
  - ☐ GPS set up
- ☐ Taxi
  - ☐ airport diagram
  - ☐ Leaning
- ☐ Proper run up
- ☐ Take off
  - ☐ After take off checklist
  - ☐ **Engine failure on runway**
- ☐ Cruise checklist
- ☐ **Emergency Introduction**
  - ☐ Engine Failure in flight
- ☐ **Maneuvers**
  - ☐ Maneuver checklist
  - ☐ **Rectangular Course**
  - ☐ **S-turns**
  - ☐ **Turns Around a Point**
    - ☐ Traffic scanning
- ☐ Descent checklist
- ☐ Traffic pattern entry
- ☐ Landing

Completion standards: Student was able to do preflight with no help from instructor. Student is introduced and demonstrates beginning knowledge of s-turns, turns around a point and rectangular course. Student is able to locate wind direction, choose a proper maneuver altitude, and demonstrate continuous traffic scanning. Student is introduced to engine failure on the runway and in flight.

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

Stage 1 Lesson 8: Flight

Maneuver Practice

TO BE REPEATED UNTIL PROFICIENT AND PERFORMING TO ACS STANDARDS

Prerequisite study: ERAU youtube video or Cirrus course videos. AFH maneuver chapters. POH Chapter 4 normal operations. Reference assigned reading from stage 1 ground topic overview

Objective: Student will be able to demonstrate and perform all maneuvers to ACS standards. Student can perform crosswind landings and slip to lands with little to no help from instructor. Student perform emergency flow. Student will receive the stage 1 exam after completion of lesson before stage 1 check

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Knowledge Areas

- ☐ Engine start

Flight Tasks

- ☐ **Start Up**
  - ☐ Preflight: checklists and Safety Briefing
  - ☐ Discuss hot vs cold vs flooded start
- ☐ **Taxi**
  - ☐ Crosswind
  - ☐ Normal
- ☐ **Ground Reference**
  - ☐ Turns around a point
  - ☐ S-turns
  - ☐ Rectangular course
- ☐ **Performance**
  - ☐ Slow flight
  - ☐ Steep turns
  - ☐ Stalls
- ☐ **Landing**
  - ☐ Normal
  - ☐ Go around
  - ☐ Slip to land
- ☐ **Emergencies**
  - ☐ Engine failure

Completion standards: Student is able to perform all maneuvers within standards in reference to the ACS. Student will do stage 1 exam before stage 1 check.

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

Stage 1 Lesson 9: Flight
Landings

Prerequisite study: Review Chapter 8 AFH. Reference assigned reading from stage 1 ground topic overview

Objective: Student will practice multiple landings in the traffic pattern. Emphasis on proper altitudes and airspeeds; before landing checklist, traffic scanning, and radio communications. Proper correction for any present winds. Refer to ACS for further guidance. TO BE REPEATED AS NECESSARY

Knowledge Areas

- ☐ Traffic pattern
    - ☐ Airspeeds and altitudes
- ☐ Emergencies in and around the traffic pattern

Flight Tasks

- ☐ Preflight
- ☐ Safety Briefing
- ☐ Crosswind taxi
- ☐ Multiple normal take offs
- ☐ Landings
    - ☐ Multiple normal
    - ☐ Go Around
    - ☐ Slip to Land

Completion standards: Student is able to complete all landings within ACS standards. Student knows when and how to execute a go around and slip to land.

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

STAGE 1 REVIEW

All maneuvers/ground knowledge

TO BE EXECUTED WITH ANOTHER INSTRUCTOR

Prerequisite study: Reference assigned reading from stage 1 ground topic overview for all topics. Go back and watch ERAU videos/ Cirrus videos to be proficient.

Objective: Student will be able to demonstrate all maneuvers within the ACS standards. Student will be tested on knowledge from the instructor and will pick from the following:

Knowledge Areas

- ☐ PAVE
    - ☐ Pilot qualifications
    - ☐ Medicals
    - ☐ Airplane Documents
    - ☐ Airplane Inspections
- ☐ Weather briefing
- ☐ Systems- list from ACS
- ☐ Aerodynamics
- ☐ Review stage 1 exam

Flight Tasks

- ☐ Proper preflight
    - ☐ Checklists
    - ☐ Safety Briefing
- ☐ Steep turns
- ☐ Slow flight
- ☐ Power on stall
- ☐ Power off stall
- ☐ Crosswind taxi
- ☐ Crosswind landing
- ☐ Slip to land
- ☐ Turns around a point
- ☐ S-Turns
- ☐ Rectangular Course
- ☐ Emergency Landing: engine failure
- ☐ Engine failure on runway

Completion standards: Student completes all maneuvers within ACS standards. Student was able to demonstrate their knowledge to the evaluator and was deemed proficient in all areas.

Date completed:_____

Overall grade: excellent good fair needs improvement

Name/Signature:_____

Notes:

Stage 2 Ground Topic Overview

Cross Country, Emergencies, and Night Operations

Prerequisite study: Read chapter 12, 13, 15, 16, 17 of PHAK. Read AFH for upset prevention and recovery, emergencies, and night operations. POH for all emergencies. FAR/AIM for other required regulations

Objective: To discuss topics related to cross country flight planning and night operations. To expand on emergency procedure knowledge. To be discussed before each relevant flight and on bad weather days.

Pilots Handbook of Aeronautical Knowledge

- ☐ **Weather Theory**
  - ☐ Atmospheric composition and stability
  - ☐ Wind (e.g., crosswind, tailwind, windshear, mountain wave, etc.)
  - ☐ Temperature
  - ☐ Moisture/precipitation
  - ☐ Weather system formation, including air masses and fronts
  - ☐ Clouds
  - ☐ Turbulence
  - ☐ Thunderstorms and microbursts
  - ☐ Icing and freezing level information
  - ☐ Fog/mist
  - ☐ Frost
  - ☐ Obstructions to visibility (e.g., smoke, haze, volcanic ash, etc.)
- ☐ **Weather Information and Services**
  - ☐ Aviationweather.gov
  - ☐ 1800WXBrief
  - ☐ ForeFlight
- ☐ Pilotage versus Dead Reckoning
- ☐ Sectionals
- ☐ Terminal Area Chart
- ☐ Chart Supplements
- ☐ VFR altitude selection
- ☐ VORs
- ☐ GPS
- ☐ Airspace
  - ☐ Visibility, cloud clearances, dimensions, speeds, entry, requirements, pilot quals
- ☐ **Aeromedical factors**
  - ☐ Reference acs
- ☐ **Night operations**
  - ☐ Illusions and considerations

Airplane Flying Handbook

- ☐ Upset prevention and recovery
- ☐ Emergency procedures
- ☐ Short and soft field landings

Pilot Operating Handbook

- ☐ Emergency procedures

FAR/AIM

- ☐ Airspace
  - ☐ VFR altitudes
  - ☐ Airspeeds

Completion standards: Student was able to become familiar with the simulator and was able to use the sim and learn basic maneuvers. Student understands the foundational blocks to runway incursion avoidance and runway information

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement

Stage 2 Lesson 1: Ground and Simulator

Emergencies, Abnormalities and System Malfunctions

Prerequisite Reading: Emergency Procedures in POH chapter 3, Airplane Flying Handbook chapter 17. Reference assigned reading from stage 2 ground topic overview

Objective: To introduce and demonstrate various emergency procedures. Discuss terrain, altitude and airplane configuration factors in emergency situations. Develop flows and proficiency in checklist usage to develop safe ADM skills for real life application.

Knowledge Areas

- ☐ Systems

SIM tasks

- ☐ Airplane parachute system if equipped
- ☐ Engine failures
  - ☐ Engine failure on the runway
  - ☐ Engine failure before take off
  - ☐ Engine failure after take off with runway length
  - ☐ Engine failure take off without available runway
  - ☐ Engine failure in the pattern
    - ☐ power off 180 not to standards
  - ☐ Engine failure in the practice area
  - ☐ Engine failure on short and final
- ☐ Electrical failure
- ☐ Fires
  - ☐ Engine
  - ☐ Wing
  - ☐ electrical
- ☐ Emergency descent
- ☐ Static blockage
- ☐ Alternator failure
- ☐ Low oil pressure

Completion standards: Student will be able to identify emergency situations. Student will perform proper procedure and checklist usage.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 2 Lesson 1 continued: Ground and Simulator
VORs

Prerequisite Reading: Chapter 16 PHAK, 1-1-3 AIM VOR. Reference assigned reading from stage 2 ground topic overview. Sectional chart supplement

Objective: To introduce sectional chart basics specifically VOR related markings. To demonstrate and have student practice how to tune, identify, track, and utilize VORs efficiently.

Knowledge Areas

- ☐ VORs
  - ☐ What is it
  - ☐ How they work
    - ☐ Line of sight
  - ☐ Construction of VOR
  - ☐ Identified in the air and on a chart
    - ☐ Intro to sectional chart

SIM tasks

- ☐ VOR work
  - ☐ How to tune
  - ☐ How to identify
  - ☐ Track inbound and outbound
  - ☐ Triangulate your position

Completion standards: Student will be able to tune, identify, track, and utilize VORs efficiently. Student has a beginning understanding of sectional charts

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 2 Lesson 2: Flight

VOR, GPS, Unusual Attitudes, Soft and Short Field Landing

Prerequisite Reading: Read Chapter 16 PHAK on VORs and GPS. Chapter 4 pages 17-23 on Upset Prevention and Recovery. Chapter 8 short and soft field landings. Reference assigned reading from stage 2 ground topic overview

Objective: To introduce and demonstrate VOR usage versus GPS. To introduce and perform unusual attitude identification and recovery. To introduce short and soft field landings. To be repeated as necessary. To perform a maneuver from stage 1 as a warm up

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Knowledge Area

- ☐ Short and Soft Field Landings
- ☐ Upset Recovery/Unusual Attitude discussion
- ☐ VOR and GPS

Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety Briefing
- ☐ **Stage 1 maneuver**
  - ☐
- ☐ Emergencies
  - ☐ Engine failure
  - ☐ **Emergency descent**
  - ☐ Electrical fire
  - ☐ Alternator failure
  - ☐ Pitot static blockages
  - ☐ Low oil psi/high temp sim
- ☐ VOR work
  - ☐ Identify
  - ☐ Track
- ☐ Unusual attitudes
  - ☐ Hood work
  - ☐ Subtle and extreme
  - ☐ Identify and recovery
- ☐ Demo Stalls
  - ☐ Accelerated
  - ☐ Trim
  - ☐ Secondary
  - ☐ Cross control
- ☐ Landings
  - ☐ Short
  - ☐ Soft
  - ☐ No flap

Completion standards: Student will be able to perform proper emergency procedures and checklist usage. Student will be able to demonstrate a stage 1 maneuver to standards. Student will be able to demonstrate ability to identify and track VORs. Student will identify unusual attitude indications and demonstrate proper recovery. Student will be able to perform proper soft field landings and short field landings to on or within 200 ft past touchdown point

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature

Notes:

Stage 2 Lesson 4: Flight

Local Cross Country

TO BE REPEATED AT BOTH DEER PARK AND COEUR d'ALENE IF NEEDED

Prerequisite Reading and Lesson: Read chart supplement on Deer Park and/or Coeur d'ALene. Cross country flight planning lesson or ground school flight planning. Reference assigned reading from stage 2 ground topic overview

Objective: To introduce flight planning procedures. Practice exiting and entering different airspace. To continue practice with VOR tracking.

Knowledge Areas: Stage 2 Ground Topic Overview

- ☐ Cross country flight planning
- ☐ Weather Theory and Services
- ☐ Right of Way

Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
    - ☐ Safety Briefing
- ☐ **Stage 1 maneuver**
    - ☐
- ☐ VOR tracking
- ☐ Pilotage
- ☐ Dead Reckoning
    - ☐ Use of a timer
- ☐ Radio Calls
- ☐ Landings at another airport
    - ☐ Touch and go
    - ☐ Soft field- optional
    - ☐ Short field- optional
- ☐ Identify possible emergency landing areas along route

Completion standards: Student will be able to plan and follow a flight plan. Student will be able to demonstrate a stage 1 maneuver to standards. Pilot will demonstrate pilotage and dead reckoning. Student will be able to make all radio calls and properly scan for all traffic along the path.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 2 Lesson 5-7: Flight

Cross Country Flights **Hood Work**

SOME OF THIS TIME WILL BE EXECUTED IN STAGE 3 IN BETWEEN SOLO CROSS COUNTRIES RIGHT BEFORE THE LONG SOLO CROSS COUNTRY FOR STAGE 3 LESSON 6

Prerequisite Reading: Review material from ground lesson 3. Create a flight plan for chosen cross countries with current PAVE requirements. Review lost procedures, PHAK chapter 16 page 34. Review emergency Squawk codes. Reference assigned reading from stage 2 ground topic overview

Objective: To introduce and demonstrate VOR usage versus GPS. To introduce and perform unusual attitude identification and recovery. To introduce short and soft field landings. To be repeated as necessary. REFER TO SOP FOR APPROVED AIRPORTS

Knowledge Areas

- ☐ Lost Procedures
- ☐ Diversions
- ☐ Squawk codes

Flight Tasks

- ☐ Create flight plan
- ☐ File flight plan
- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety Briefing
- ☐ Emergencies
- ☐ VOR work
  - ☐ Proper ID
- ☐ Unusual attitudes
- ☐ **Stage 1 maneuver(s)**
  - ☐
  - ☐
  - ☐
  - ☐
  - ☐
- ☐ Pilotage
- ☐ Dead Reckoning
  - ☐ Use of a timer
- ☐ Diversion
- ☐ Lost Comms
  - ☐ Confess
  - ☐ Climb
  - ☐ Conserve fuel
  - ☐ Communicate
  - ☐ Comply
- ☐ Hood work

Completion standards: Student will be able to perform proper procedures related to executing long cross countries. Pilotage and dead reckoning. Proper radio calls, headings, and VOR tracking. Emergency landing spot considerations. Lost procedures. Diversion procedures. Utilization of flight following and proper traffic scanning. Student will be able to demonstrate a stage 1 maneuver to standards.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 2 Lesson 8: Flight

Night Flight Landings

Prerequisite Reading: Review material from Chapter 10 and 17 Night Operations. Review the 3 definitions of *night* in the FAR/AIM. Reference assigned reading from stage 2 ground topic overview

Objective: To introduce and demonstrate the difference between the night time environment and daytime environment. To practice and demonstrate night time landings. At the end of the lesson, student will receive the pre-solo test to begin working on

---

Knowledge Areas

- ☐ Human Factors
- ☐ Night operations and illusions
- ☐ Review Required Equipment

Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
    - ☐ Safety Briefing
    - ☐ Special night considerations
- ☐ 8 night landings
    - ☐ Without airport lights
    - ☐ Without landing light

Completion standards: Student will be able to perform proper normal landings at night with various operating limitations. Student will demonstrate knowledge of night time environment characteristics, operations and illusions

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 2 Lesson 9: Flight

Night Cross Country **Hood Work**

Prerequisite Reading: Review material from Chapter 10 and 17 Night Operations. Review the 3 definitions of *night* in the FAR/AIM. Reference assigned reading from stage 2 ground topic overview

Objective: To introduce and demonstrate the difference between the night time environment and daytime environment. To complete the 100 nm night cross country and remaining 2 night landings. Review the pre solo exam.

Knowledge Areas

- ☐ Human Factors
- ☐ Night operations and illusions
- ☐ Review Required Equipment
- ☐ Airspace review

Flight Task

- ☐ Create a flight plan
- ☐ File a flight plan
- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety Briefing
  - ☐ Special night considerations
- ☐ **Stage 1 maneuver**
  - ☐
- ☐ Emergencies
- ☐ VOR work
  - ☐ Proper ID
- ☐ Pilotage
- ☐ Dead Reckoning
  - ☐ Use of a timer
- ☐ Diversion
- ☐ Lost Comms
  - ☐ Confess
  - ☐ Climb
  - ☐ Conserve fuel
  - ☐ Communicate
  - ☐ Comply
- ☐ Hood work
- ☐ Night Landings

Completion standards: Student will be able to demonstrate a proper flight plan. Pilot will demonstrate knowledge on night time environment characteristics and illusions to increase situational awareness and ADM skills. Student will complete at least 2 night landings. Student will show proficiency in knowledge on pre solo exam in preparation for stage check.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 2 REVIEW

CROSS COUNTRY, EMERGENCIES, and NIGHT FLYING

TO BE EXECUTED WITH ANOTHER INSTRUCTOR

Prerequisite Reading: Review all previous material from the beginning of stage 2. Create a flight plan at least 50 nm. Reference assigned reading from stage 2 ground topic overview for all topics. Complete Pre-solo quiz

Objective: To have student perform and demonstrate proper knowledge on flight planning procedures. To have student identify emergencies and proper recovery. Student will perform to standards various landings. Instructor will choose all or some of the following tasks to demonstrate

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Knowledge Areas

- ☐ Pre solo exam
- ☐ Proper flight plan
  - ☐ PAVE
  - ☐ Waypoint and altitude selection

Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety Briefing
- ☐ Radio Calls
- ☐ **Stage 1 maneuver(s)**
  - ☐
  - ☐
  - ☐
- ☐ Emergencies
  - ☐
  - ☐
- ☐ VOR work
- ☐ Unusual attitudes
- ☐ Traffic scanning
- ☐ Diversion
- ☐ Lost Procedures
- ☐ Landings
  - ☐ Normal
  - ☐ Short
  - ☐ Soft
  - ☐ Slip
  - ☐ Go around

Completion standards: Student will be able to perform to standards all of the chosen tasks. After completion of flight, instructor will brief primary CFI of the performance. Primary CFI will make a decision to repeat missed tasks, or to endorse for a solo flight.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Stage Check Notes

STUDENT PILOT ENDORSEMENTS

Pre-solo aeronautical knowledge: § 61.87(b). I certify that _____ has satisfactorily completed the pre-solo knowledge test of § 61.87(b) for the _____aircraft. Date_____ CFI_____	**Solo flight (first 90 calendar-day period): § 61.87(n)**. I certify that _____ has received the required training to qualify for solo flying. I have determined [he or she] meets the applicable requirements of § 61.87(n) and is proficient to make solo flights in_____ Date_____ CFI_____
Pre-solo flight training: § 61.87(c)(1) and (2). I certify that _____ has received and logged pre-solo flight training for the maneuvers and procedures that are appropriate to the _____ aircraft. I have determined [he or she] has demonstrated satisfactory proficiency and safety on the maneuvers and procedures required by § 61.87 in this or similar make and model of aircraft to be flown. Date_____ CFI_____	**Solo cross-country flight: § 61.93(c)(1) and (2).** I certify that _____ has received the required solo cross-country training. I find [he or she] has met the applicable requirements of § 61.93, and is proficient to make solo cross-country flights in a_____aircraft, _____ category Date_____ CFI_____
Solo takeoffs and landings at another airport within 25 nautical miles (NM): § 61.93(b)(1). I certify that _____has received the required training of § 61.93(b)(1). I have determined that [he or she] is proficient to practice solo takeoffs and landings at _____. The takeoffs and landings at _____are subject to the following conditions: _____ _____ _____ Date_____ CFI_____	**Solo cross-country flight: § 61.93(c)(3)**. I have reviewed the cross-country planning of _____. I find the planning and preparation to be correct to make the solo flight from _____ to _____ via _____ with landings at _____ in a _____ aircraft on ___/___/____. Limitations_____ _____ _____ Date_____ CFI_____
Solo flight (each additional 90 calendar-day period): § 61.87(p). I certify that_____ has received the required training to qualify for solo flying. I have determined that [he or she] meets the applicable requirements of § 61.87(p) and is proficient to make solo flights in _____ Date_____ CFI_____	

Stage 3 Lesson 1: Flight

Supervised Solo Flight

Prerequisite Reading: Solo test. Solo flight endorsement and limitations. Proper PAVE.

Objective: To have student execute their first solo flight. Student and CFI will perform 3 take off and landings. If student cannot perform 3 take off and landings in a row without any instructor input, transition lesson into a dual only and repeat another day

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Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety Briefing
- ☐ 3 take off and landings with CFI
  - ☐ Full stop taxi back
- ☐ 3 solo take off and landings
  - ☐ Instructor will observe from the ground

Completion standards: Student successfully completes the 3 landings

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 2: Flight

Maneuver Review Flight

Prerequisite Reading: Solo test. Solo flight endorsement and limitations. Proper PAVE. Review ACS and Airplane Flying Handbook on Slow Flight, Power On and Off Stalls, Steep Turns, Ground Reference Maneuvers

Objective: To have student review and practice Private Pilot maneuvers with instructor in preparation for the first solo cross country and beginning checkride preparation

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Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
    - ☐ Safety Briefing
- ☐ Slow Flight
- ☐ Power On Stalls
- ☐ Power Off Stalls
- ☐ Steep Turns
- ☐ Ground Reference Maneuvers
    - ☐ S turns
    - ☐ Turns Around a Point
    - ☐ Rectangular Course
- ☐ Proper Traffic Scanning

Completion standards: Student successfully completes the maneuvers to ACS standards and feels comfortable

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 2: Flight

Maneuver Solo Flight

Prerequisite Reading: Solo test. Solo flight endorsement and limitations. Proper PAVE. Review ACS and Airplane Flying Handbook on Slow Flight, Power On and Off Stalls, Steep Turns, Ground Reference Maneuvers

Objective: To have student practice Private Pilot maneuvers until they feel proficient on their own. Repeat as necessary

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Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety Briefing
- ☐ Slow Flight
- ☐ Power On Stalls
- ☐ Power Off Stalls
- ☐ Steep Turns
- ☐ Ground Reference Maneuvers
- ☐ S turns
- ☐ Turns Around a Point
- ☐ Rectangular Course
- ☐ Landings
  - ☐ Soft
  - ☐ Short
  - ☐ Go around
  - ☐ Slip to land

Completion standards: Student successfully completes the maneuvers and feels comfortable

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 3-5: Flight

Solo Cross Countries

Prerequisite Reading: Solo test. Solo flight endorsement and solo cross country endorsements and limitations. Proper PAVE, create a proper flight plan.

Objective: To have student perform cross countries in the surrounding areas. Practice the past skills acquired using single pilot operations and utilizing all available resources. Safely execute a minimum of five hours of cross country flying.

Knowledge Areas Flight Tasks

- ☐ Create an approved flight plan
    - ☐ At least 150 nm total distance
    - ☐ 50 nm leg
    - ☐ VFR altitudes
    - ☐ Appropriate waypoints
    - ☐ Alternates
    - ☐ Fuel considerations
- ☐ Get an endorsement
- ☐ File a flight plan

Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
    - ☐ Safety Briefing
- ☐ Pilotage
- ☐ Dead reckoning

Completion standards: Student successfully completes the cross country flights and does proper preflight action

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 2: Flight

Dual Cross Country Flight **Hood Work**

Prerequisite Reading: Reference assigned reading from stage 1 and 2 ground topic overviews

Objective: To have student fly with CFI to answer any questions from solo cross countries. To correct and improve any skills deemed necessary by instructor

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Flight Tasks

- ☐ Create flight plan
- ☐ File flight plan
- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety briefing
- ☐ Emergencies
- ☐ VOR work
  - ☐ Proper ID
- ☐ Unusual attitudes
- ☐ **Stage 1 maneuver(s)**
  - ☐
  - ☐
  - ☐
  - ☐
  - ☐
- ☐ Pilotage
- ☐ Dead Reckoning
  - ☐ Use of a timer
- ☐ Diversion
- ☐ Lost Comms
  - ☐ Confess
  - ☐ Climb
  - ☐ Conserve fuel
  - ☐ Communicate
  - ☐ Comply
- ☐ Hood work

Completion standards: Student successfully completes the maneuvers and feels comfortable

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 6: Flight

Solo Long Cross Country

Prerequisite Reading: Solo test. Solo flight endorsement and solo cross country endorsements and limitations. Proper PAVE, create a proper flight plan.

Objective: To have student perform a long cross country with at least 150 nm and a 50 nm leg. Practice the past skills acquired using single pilot operations and utilizing all available resources. Safely execute a long cross country flying.

Knowledge Areas Flight Tasks

- ☐ Create an approved flight plan
    - ☐ At least 150 nm total distance
    - ☐ 50 nm leg
    - ☐ VFR altitudes
    - ☐ Appropriate waypoints
    - ☐ Alternates
    - ☐ Fuel considerations
- ☐ Get an endorsement
- ☐ File a flight plan

Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
    - ☐ Safety Briefing
- ☐ Pilotage
- ☐ Dead reckoning

Completion standards: Student successfully completes the cross country flight and does proper preflight action

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 7: Ground

Checkride Preparation

Prerequisite Reading: Review the knowledge material from the ACS and study all relevant material. Reference the PHAK, AFH, FAR/AIM. Reference stage 1 and 2 ground topic overviews

Objective: To have student demonstrate proficient knowledge on all ACS topics. Have EOC examiner assign a cross country plan to create to be discussed in this lesson.

Knowledge Areas

- ☐ Pilot Qualifications
- ☐ Airworthiness Requirements
- ☐ Weather Theory
- ☐ Weather Services
- ☐ Cross Country Flight Planning: EOC instructor assigned
- ☐ National Airspace System
- ☐ Performance and Limitations
    - ☐ Weight and Balance
- ☐ Systems
- ☐ Human Factors

Completion standards: Student successfully completes the cross country flights and does proper preflight action. Student will create a flight plan for the end of course flight.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 8: Flight

Checkride Preparation

Prerequisite Reading: Review the maneuvers to perform from the ACS. Reference the AFH

Objective: To have student perform to standards all maneuvers and relevant checkride preparatory material.

Flight Tasks

- ☐ Proper preflight, taxi, run up procedures
  - ☐ Safety Briefing
- ☐ **Performance Maneuvers**
  - ☐ Slow flight
  - ☐ Power On Stalls
  - ☐ Power OFF Stalls
  - ☐ Steep Turns
- ☐ **Ground Reference Maneuvers**
  - ☐ S Turns
  - ☐ Turns Around a Point
  - ☐ Rectangular Course
- ☐ **Navigation Tasks**
  - ☐ VOR
  - ☐ Pilotage
  - ☐ Dead Reckoning
  - ☐ Diversions
- ☐ **Emergencies**
  - ☐ Engine failures
  - ☐ Fires
  - ☐ Emergency Descents
  - ☐ Instrument and Gauge Failures
  - ☐ Lost Procedures
- ☐ **Other Tasks**
  - ☐ Crosswind Taxi/Landing
  - ☐ Unusual Flight Attitudes

Completion standards: Student successfully completes all flight tasks to ACS standards.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 9: Ground

Private Pilot Mock Checkride

Prerequisite Reading: Review all previous ground knowledge. Reference the ACS, PHAK, AFH, Jeppesen Textbook. Reference the Oral Exam Guide. Prepare a flight plan assigned by stage check instructor.

Objective: To have the student show proficiency in all available topics in preparation for the Private Pilot Practical Exam. Instructor may choose from any of the following topics to discuss. Student will show knowledge of cross country flight planning and all of the factors that go into making a safe go or no go decision for the flight.

Knowledge Areas

- ☐ Pilot Qualifications
  - ☐ Certification requirements
  - ☐ Recent flight experience, and recordkeeping
  - ☐ Privileges and limitations
  - ☐ Medical certificates
    - ☐ Class
    - ☐ Expiration
    - ☐ Privileges
    - ☐ Temporary disqualifications
    - ☐ Documents required to exercise private pilot privileges
    - ☐ Part 68 BasicMed privileges and limitations
- ☐ Airworthiness Requirements
  - ☐ Required inspections AV1ATES
  - ☐ Required documents ARROW
  - ☐ Special flight permit
  - ☐ Pilot-performed preventive maintenance
  - ☐ Equipment requirements for day and night VFR flight 91.205
  - ☐ Inoperative equipment
  - ☐ Minimum Equipment List (MEL)
  - ☐ Kinds of Operation Equipment List (KOEL)
  - ☐ Required discrepancy records or placards
- ☐ Weather Information
  - ☐ Atmospheric composition and stability
  - ☐ Wind (e.g., crosswind, tailwind, windshear, mountain wave, etc.)
  - ☐ Temperature
  - ☐ Moisture/precipitation
  - ☐ Weather system formation, including air masses and fronts
  - ☐ Clouds
  - ☐ Turbulence
  - ☐ Thunderstorms and microbursts
  - ☐ Icing and freezing level information
  - ☐ Fog/mist
  - ☐ Obstructions to visibility (e.g., smoke, haze, volcanic ash, etc.)

- ☐ Flight deck displays of digital weather and aeronautical information. *Cirrus only*
- ☐ Personal weather minimums and diversion considerations

☐ Create an approved flight plan
- ☐ VFR altitudes
- ☐ Appropriate waypoints
- ☐ Airspace considerations
- ☐ Performance calculations
  - ☐ Atmospheric conditions
  - ☐ Pilot technique
  - ☐ Airplane configuration
  - ☐ Airport environment
  - ☐ Loading (e.g., center of gravity)
  - ☐ Weight and balance
  - ☐ Aerodynamics
    - ☐ Four forces
    - ☐ Stability

☐ Aircraft Systems
- ☐ Primary flight controls
- ☐ Secondary flight controls
- ☐ Powerplant and propeller
- ☐ Landing gear
- ☐ Fuel, oil, and hydraulic
- ☐ Electrical
- ☐ Avionics
- ☐ Pitot-static
  - ☐ V speeds
- ☐ Vacuum/pressure
- ☐ Environmental
- ☐ Deicing and anti-icing
- ☐ Oxygen system
- ☐ Navigation
  - ☐ Ground
  - ☐ Satellite
  - ☐ Radar
- ☐ Indications of and procedures for managing system abnormalities or failures

☐ Human Factors
- ☐ Hypoxia
- ☐ Hyperventilation
- ☐ Middle ear and sinus problems
- ☐ Spatial disorientation
- ☐ Motion sickness
- ☐ Carbon monoxide poisoning
- ☐ Stress
- ☐ Fatigue
- ☐ Dehydration and nutrition
- ☐ Hypothermia
- ☐ Optical illusions
- ☐ Dissolved nitrogen in the bloodstream after scuba dives
- ☐ Regulations regarding use of alcohol and drugs
- ☐ Effects of alcohol, drugs, and over-the-counter medications

☐ Aeronautical Decision-Making (ADM)

Completion standards: Student can successfully discuss the above topics with minimal reference to the texts. Student can defend their flight plan and decision making.

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Stage 3 Lesson 9: Flight

Private Pilot Mock Checkride

Prerequisite Reading: Stage 3 Lesson 8 ground lesson

Objective: To have student perform tasks pertaining to the Private Pilot ACS. CFI may choose all or some of the following maneuvers to judge proficiency of student's skills. The student will be able to perform maneuvers, emergencies and cross country planning to standards

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Flight Tasks

- ☐ Preflight Procedures
  - ☐ Check inspections and documents
  - ☐ Safety briefing
  - ☐ Checklist usage
  - ☐ Engine starting
    - ☐ Hot, cold, flooded
  - ☐ Taxi
    - ☐ Normal
    - ☐ Crosswind
  - ☐ Run Up
    - ☐ Checklist usage
    - ☐ Reasons for checking and detecting malfunctions
  - ☐ Light gun signals
    - ☐ On their kneeboard for reference
- ☐ Take-Offs
  - ☐ Normal
  - ☐ Short
  - ☐ Soft
  - ☐ Aborted
  - ☐ Engine failure after take off- simulated in plane
- ☐ Landings
  - ☐ Normal
  - ☐ Short
  - ☐ Soft
  - ☐ Go around
  - ☐ Slip to land
  - ☐ No flap
- ☐ Steep Turns
- ☐ Power On Stalls
- ☐ Power Off Stalls
- ☐ Slow Flight
- ☐ Rectangular Course
- ☐ S-Turns
- ☐ Turns Around a Point
- ☐ Emergencies
  - ☐ Engine failures
  - ☐ Fires
- ☐ Cross country
  - ☐ Lost procedures
  - ☐ Diversions

Completion standards: Student successfully completes chosen tasks to standards

Date Completed_____

Overall Grade: Excellent Good Fair Needs Improvement Instructor

Name/Signature_____

Notes:

Private Pilot Checkride Endorsements

Aeronautical knowledge test: §§ 61.35(a)(1), 61.103(d), and 61.105. I certify that _____has received the required training in accordance with § 61.105. I have determined [he or she] is prepared for the _____knowledge test Date_____ CFI_____	**Retesting after failure of a knowledge or practical test: § 61.49** I certify that _____ has received the additional [flight and/or ground, as appropriate] training as required by § 61.49. I have determined that [he or she] is proficient to pass the _____knowledge/practical test. Date_____ CFI_____
Review of deficiencies identified on airman knowledge test: § 61.39(a)(6)(iii), as required. I certify that _____has demonstrated satisfactory knowledge of the subject areas in which [he or she] was deficient on the _____airman knowledge test. Date_____ CFI_____	
Prerequisites for practical test: Title 14 of the Code of Federal Regulations (14 CFR) part 61, § 61.39(a)(6)(i) and (ii). I certify that _____has received and logged training time within 2 calendar-months preceding the month of application in preparation for the practical test and [he or she] is prepared for the required practical test for the issuance of _____certificate. Date_____ CFI_____	
Flight proficiency/practical test: §§ 61.103(f), 61.107(b), and 61.109 I certify that _____has received the required training in accordance with §§ 61.107 and 61.109. I have determined [he or she] is prepared for the_____practical test. Date_____ CFI_____	

Pilot: Tail #: Dispatched by:

Risk Assessment

		Low		Medium		High		Score
P	**Pilot**							
	General		0		5		10	
	IFR Proficiency		0		5		10	
OR	NOT IFR Rated						10	
	Night Currency (30 Days)	> 3 Landings	0	1-3 Landings	3	0 Landings	5	
	IMSAFE (see reverse)	0 Elements	0	1 Element	5	2 or greater elements	10	
A	**Aircraft**							
	Maintenance Status	Fully Functional	0	Non Critical Squawks	10	Not Airworthy	NG	
	On Board Weather	Yes	0			No	5	
	Autopilot	Yes	0			No	10	
V	**Enviornment**							
	Planned Flight Altitude	< 8000	0	8000-12,000	5	> 12,000	10	
	Planned Flight Time	< 2 hrs	0	2-4 hrs	5	> 4 hrs	10	
	Enroute Terrain	Flat	0	Rolling / Low	5	Mntns or Large Bodies of H2O	10	
	Enroute Weather	CAVU	0	Isolated TS / Poss Icing	10	Scattered TS / Probable Icing	40	
	Ceilings/Vis at Destination	> 3000 / 5	0	2000-3000 / 3 Miles	8	< 2000 2 Miles	15	
	Landing RW distance	2.5 x Short Field + Roll	0	> 1.5 X <2.5 X	5	< 1.5 X	10	
	Crosswind at Destination	<10 Knots	0	10-20 Knots	5	> 20 Knots	10	
	Day vs Night	Day	0			Night	30	
	Landing Airfield	Familiar	0			New	10	
E	**External Pressures**							
	New Passenger(s)	No	0			Yes	10	
	Co-Pilot	Yes w/CRM training	-10			No, or w/o CRM training	10	
	Urgency of Flight	Can be late	1	Should Get There	5	Must Get There	20	
	Family &/or Business Issues	Nothing Pressing	1	Occupied with Issues	10	Stressed by Situations	30	
	Total Score							

</= 90	**Low Risk, Stay Vigilent**
> 90 < 170	**Moderate Risk, Apply Risk Management, especially OUTS**
> 170	**Reschedule and/or make changes to reduce Risk**

General Flight Guidance	1	2	3	4	5	You
Years Actively Flying (Currency Maintained)	> 10	6-10	2-5		<2	
Last Recurring Training Event	<6 Mo		6-12 Mo		12-24 Mo	
Certificate Held	ATP or CFI	Comm w/ IFR	Pvt w/IFR	PVT	Stud	
Total Time	>2000	1000-2000	750-1000	500-750	<500	
Hours Logged Last 12 Months	>200	150-200	100-150	50-150	<50	
Hours in Type Last 90 Days	>50	35-50	25-35	10-25	<10	
Mishap in Last 24 Months				Incident	Accident	
Landing (in Type) Last 30 Days	>10	6-9	3-5	1-2	0	
					Total	
Pilot Categories	>/= 23		14-22		</+13	

Instrument Flight Guidance	1	2	3	4	5	You
Years Actively Flying IFR (Currency Maintained)	>5		1-5		<1	
Hours Flown IFR in Last 90 Days	>35	25-35	10-25	5-10	<5	
Simulated / Actual Instrument in Type (avionics) last 90 Days	>3		1-3		<1	
Autpilot Coupled IAPs in Type (avionics) last 90 Days	>4		1-4		0	
Hand Flown IAPs in Last 90 Days	>2		1		0	
Received Avionics Specific Training from Instructor	Yes				No	
Subtract 2 points for completeing IPC in last 12 Months; Subtract 1 point when flying with IFR licensed pilot					Total	
Pilot Categories	>/= 19		8-18		</+7	

IMSAFE: Illness; **M**edication; **S**tress; **A**lcohol; **F**atigue; **E**ating

WEIGHT AND BALANCE

SKYHAWK N_____

STATION	WEIGHT	ARM	MOMENT
Empty Weight			
Usable Fuel _____gal		48	
Pilot & Front passenger		37	
Rear Passengers		73	
Baggage Area 1 (120 lbs Max)		95	
Baggage Area 2 (50 lbs Max)		123	
RAMP WEIGHT			
Start/Taxi/ Run-up	-7	48	-336
TAKEOFF WEIGHT			
Fuel Burn _____gal		48	
LANDING WEIGHT			

MINIMUM FUEL REQUIRED _____ GAL.

N#	Empty Weight	Arm	Moment	Max T/O Weight
3021E	1436.69	36.1	51,869,78	2400
738BS	1513.51	36.84	55,750.38	2400

PREFLIGHT CHECKLIST	
Current Departure WX	
Current Enroute WX	
Forecast Enroute WX	
Forecast Destination WX	
Forecast Alternate Airport WX	
Winds & Temps Aloft Forecast	
Area Forecast	
Temp/Dew Point Spread	
Freezing Level	
PIREPs	
NOTAMs	
ADM/PAVE	
Flight Plan	

LIGHT GUN SIGNALS		
SIGNAL	ON GROUND	IN FLIGHT
Steady Green	Cleared for Takeoff	Cleared to Land
Flashing Green	Cleared to Taxi	Return for Landing
Steady Red	Stop	Give Way
Flashing Red	Taxi Clear of Runway	DO NOT LAND
Flashing White	Return to Ramp	-
Alternating Red/Green	Use Extreme Caution	Use Extreme Caution

I'M SAFE	
Illness	
Medication	
Stress	
Alcohol	
Fatigue	
Eating	

December 3, 2019

WEIGHT AND BALANCE

CIRRUS N_____

STATION	WEIGHT	ARM	MOMENT
Empty Weight			
Usable Fuel _____gal			
Pilot & Front passenger			
Rear Passengers			
Baggage Area 1 (120 lbs Max)			
Baggage Area 2 (50 lbs Max)			
RAMP WEIGHT			
Start/Taxi/ Run-up			
TAKEOFF WEIGHT			
Fuel Burn _____gal			
LANDING WEIGHT			

MINIMUM FUEL REQUIRED _____ GAL.

N#	Empty Weight	Arm	Moment	Max T/O Weight
881PF	2187	140.67	307.693	3050

PREFLIGHT CHECKLIST	
Current Departure WX	
Current Enroute WX	
Forecast Enroute WX	
Forecast Destination WX	
Forecast Alternate Airport WX	
Winds & Temps Aloft Forecast	
Area Forecast	
Temp/Dew Point Spread	
Freezing Level	
PIREPs	
NOTAMs	
ADM/PAVE	
Flight Plan	

LIGHT GUN SIGNALS		
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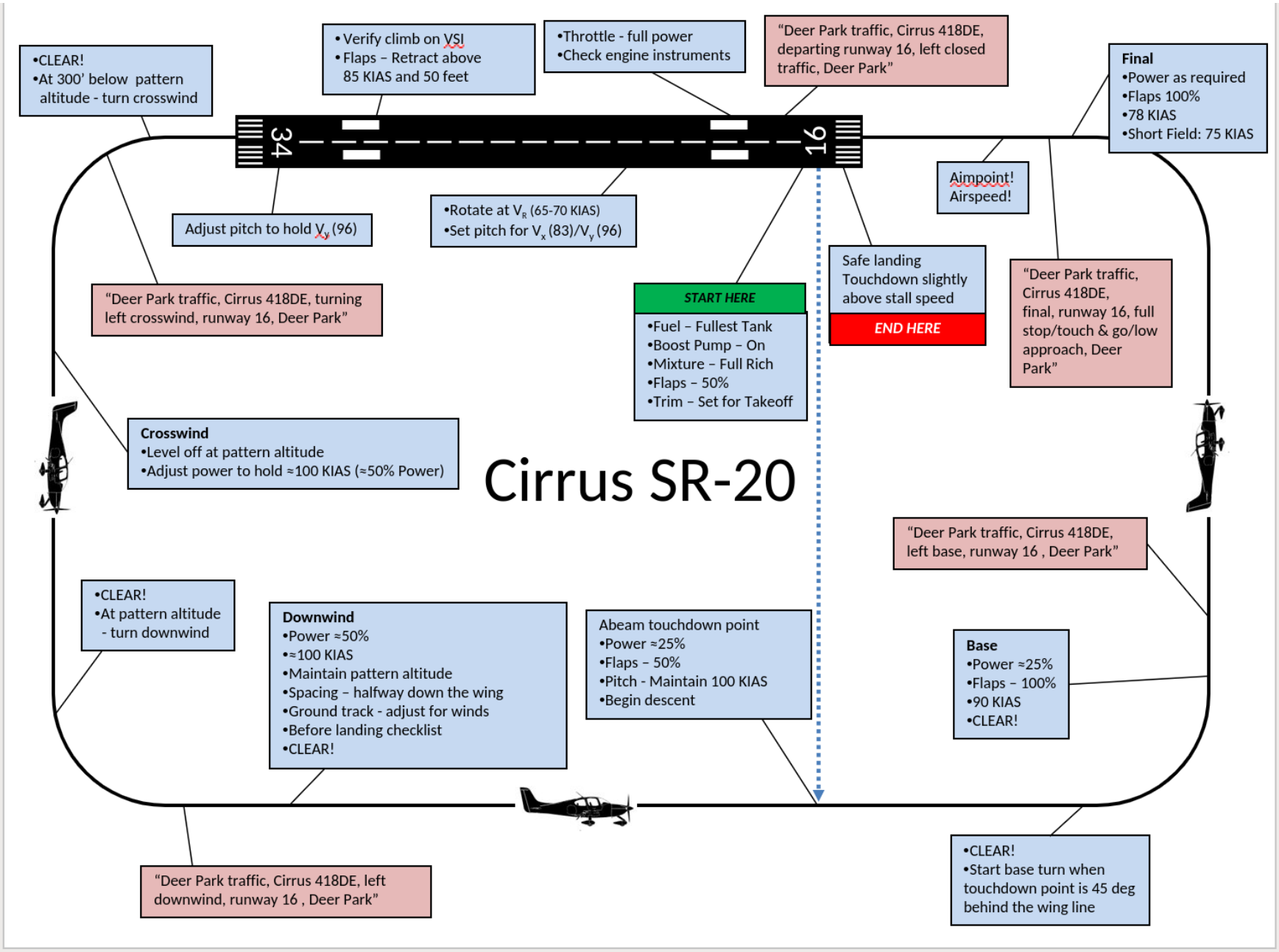
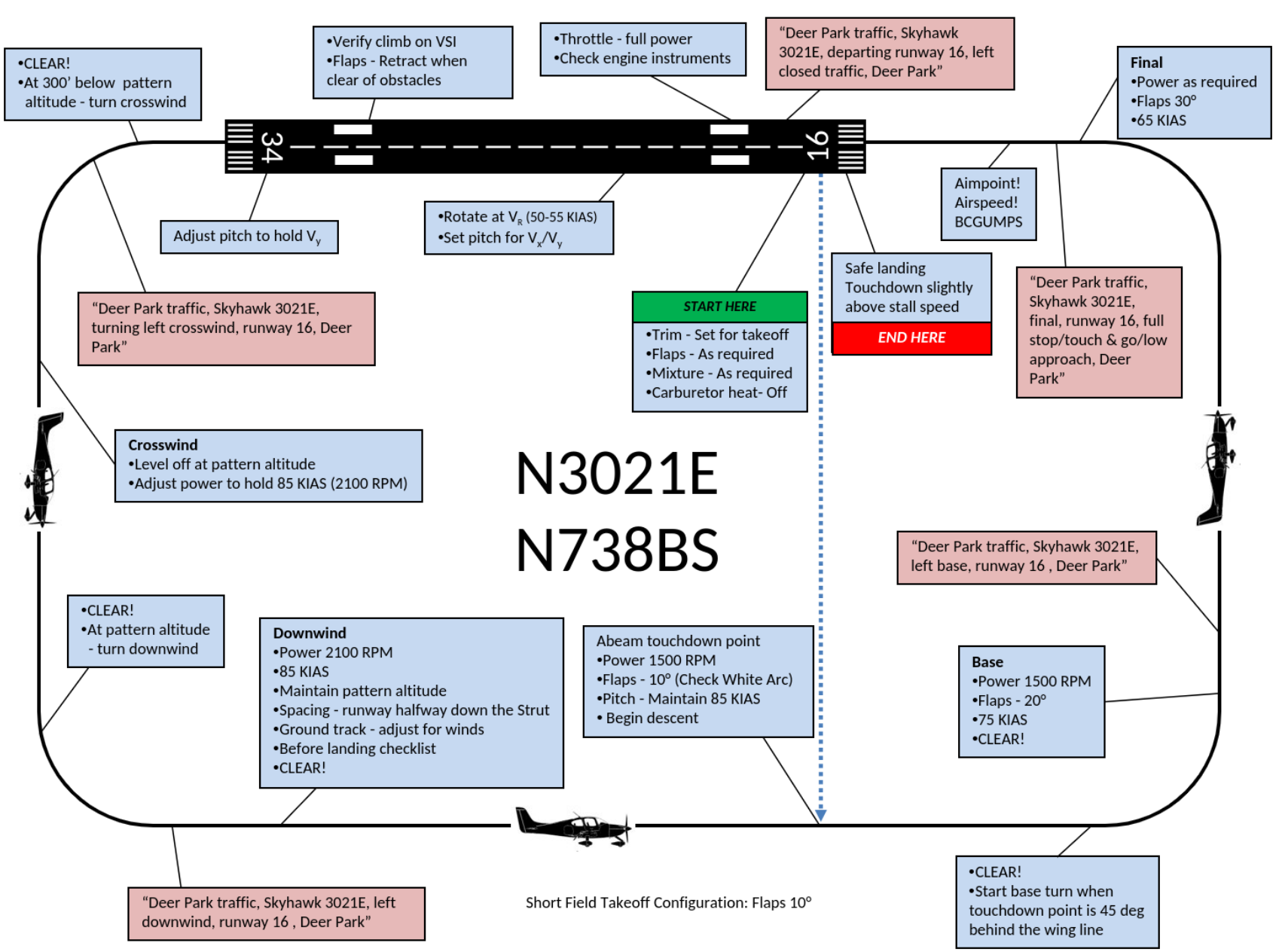
Flashing Red	Taxi Clear of Runway	DO NOT LAND
Flashing White	Return to Ramp	-
Alternating Red/Green	Use Extreme Caution	Use Extreme Caution

I'M SAFE	
Illness	
Medication	
Stress	
Alcohol	
Fatigue	
Eating	

December 3, 2019


•CLEAR!
•At 300' below pattern altitude - turn crosswind
• Verify climb on VSI
• Flaps – Retract above 85 KIAS and 50 feet
•Throttle - full power
•Check engine instruments
"Deer Park traffic, Cirrus 418DE, departing runway 16, left closed traffic, Deer Park"
Final
•Power as required
•Flaps 100%
•78 KIAS
•Short Field: 75 KIAS
34
16
Aimpoint!
Airspeed!
Adjust pitch to hold V_y (96)
•Rotate at V_R (65-70 KIAS)
•Set pitch for V_x (83)/V_y (96)
"Deer Park traffic, Cirrus 418DE, turning left crosswind, runway 16, Deer Park"
START HERE
•Fuel – Fullest Tank
•Boost Pump – On
•Mixture – Full Rich
•Flaps – 50%
•Trim – Set for Takeoff
Safe landing
Touchdown slightly above stall speed
END HERE
"Deer Park traffic, Cirrus 418DE, final, runway 16, full stop/touch & go/low approach, Deer Park"
Crosswind
•Level off at pattern altitude
•Adjust power to hold ≈100 KIAS (≈50% Power)
Cirrus SR-20
"Deer Park traffic, Cirrus 418DE, left base, runway 16 , Deer Park"
•CLEAR!
•At pattern altitude - turn downwind
Downwind
•Power ≈50%
•≈100 KIAS
•Maintain pattern altitude
•Spacing – halfway down the wing
•Ground track - adjust for winds
•Before landing checklist
•CLEAR!
Abeam touchdown point
•Power ≈25%
•Flaps – 50%
•Pitch - Maintain 100 KIAS
•Begin descent
Base
•Power ≈25%
•Flaps – 100%
•90 KIAS
•CLEAR!
"Deer Park traffic, Cirrus 418DE, left downwind, runway 16 , Deer Park"
•CLEAR!
•Start base turn when touchdown point is 45 deg behind the wing line



Short Field Takeoff Configuration: Flaps 10°

WEATHER RESTRICTIONS

The following weather restrictions apply to NWFS operations:

	Ceiling	Visibility	Crosswind Component
Traffic Pattern	3000 AGL	5 NM	8 Kts

Practice Area	5000 AGL	8 NM	8 Kts
VFR Cross Country	5000 AGL	10 NM	8 Kts
IFR	200' above lowest published minimums	Published mins plus ½ NM for precision. Published mins plus 1 NM for non-precision	8 Kts

*Individual student/renter endorsements may be more or less restrictive than that presented in this table.

**Dual flight instruction may be conducted at the flight instructor's personal minimums which may not match this table.

Spokane Felts Field VFR Radio Communications

Departure Procedure

Listen to KSFF ATIS on 120.55
ATIS information letter _____
wind direction and speed _____@_____
cloud height(s) _____
temperature/dew point _____/_____
altimeter _____
active runway _____
other information _____

Call Felts ground on 121.7:
"Felts ground Skyhawk _____ is at _____ ready to taxi with ___ (ATIS code) VFR to _____"

Expected response from ground:
"Skyhawk _____ taxi to RWY _____ via _____"

Call Felts Tower on 132.5:
"Felts tower Skyhawk _____ is at _____ (runway) ready for departure."

Expected response from tower:
"Skyhawk _____ cleared for takeoff RWY _____ "

Arrival Procedure

While inbound listen to KSFF ATIS on 120.55
ATIS information letter _____
wind direction and speed _____@_____
cloud height(s) _____
temperature/dew point _____/_____
altimeter _____
active runway _____
other information _____

Contact Felts Tower on 132.5:
"Felts Tower Skyhawk _____ is ____ miles to the ____ landing with _____ (ATIS code)"

1st expected response from tower:
"Skyhawk _____ enter a _____ for runway ____"

2nd expected response from tower:
"Skyhawk _____ cleared to land runway _____"

When clear of the runway and after post landing checklist is complete, contact Felts ground on 121.7:
"Felts ground Skyhawk _____ is at ____ for the _____(parking location)".

Expected response from ground:
"Skyhawk _____ taxi to _____ via _____."