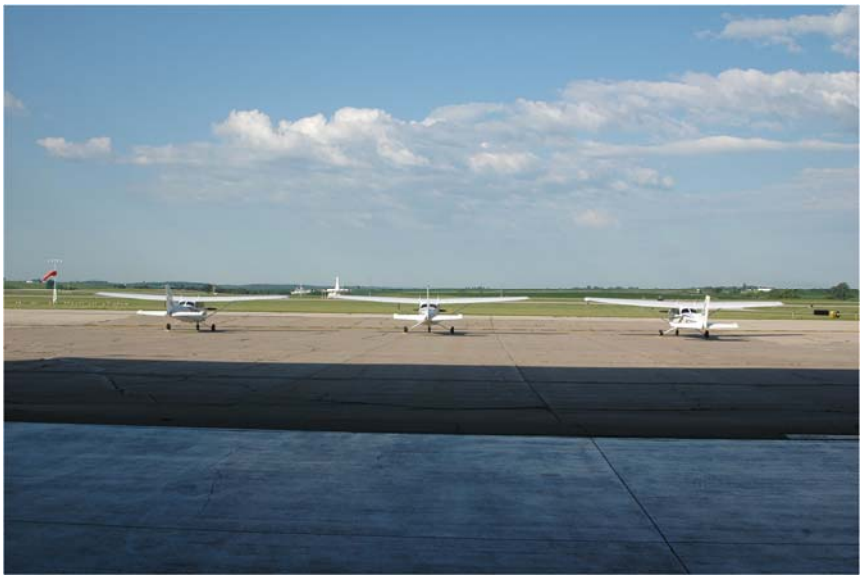
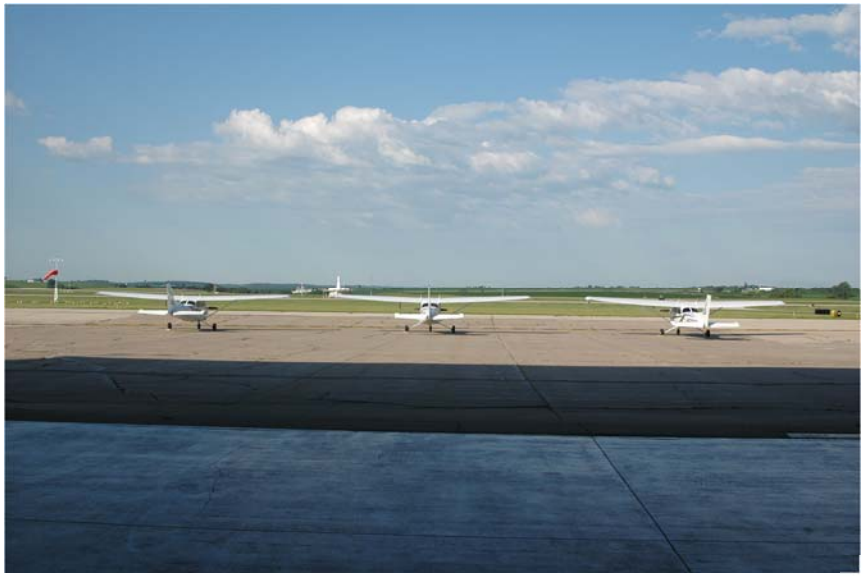


UNIVERSITY of DUBUQUE

PRIVATE PILOT
TRAINING COURSE OUTLINE



UNIVERSITY of DUBUQUE

PRIVATE PILOT
TRAINING COURSE OUTLINE

UNIVERSITY *of* DUBUQUE

This is to certify that

_____

is enrolled in the FAA approved

PRIVATE PILOT CERTIFICATION COURSE

conducted at the University of Dubuque

School #GV8S178Q

_____

Enrollment Date

_____ _____

Primary Flight Instructor Chief Flight Instructor

PRIVATE PILOT CERTIFICATION COURSE

STUDENT FLIGHT RECORD

FTN #

University of Dubuque / 2000 University Ave / Dubuque, IA 52001

AIR AGENCY CERTIFICATE NO. GV8S178Q

Pilot's Legal Name _____ SODA ☐ DOB_____

Pilot's Official Signature _____

CITIZENSHIP

I certify that _____ has presented to me a _____

(Certified Birth Certificate or U.S. Passport), establishing that he / she is a U.S. Citizen or national in accordance with 49 CFR 1552.3 (h).

Instructor _____ Date _____

Cert.# _____ Exp. _____

PERMANENT ADDRESS

Street _____ City _____ State_____ Zip_____

Phone: Home _____ Cell _____

ENROLLMENT

Date of Enrollment _____ Date Completed _____

Medical Certificate: Class _____ Date Issued _____ Expires _____

Student Pilot Certificate No. _____ Date Issued _____ Expires _____

Pre-Solo Written Exam: Date _____ Score _____

SOLO ENDORSEMENTS

MAKE _____ MODEL _____ DATE _____ INSTRUCTOR _____

MAKE _____ MODEL _____ DATE _____ INSTRUCTOR _____

MAKE _____ MODEL _____ DATE _____ INSTRUCTOR _____

SOLO CROSS-COUNTRY ENDORSEMENTS

1ST: DATE _____ ROUTE _____ INSTRUCTOR _____

2ND: DATE _____ ROUTE _____ INSTRUCTOR _____

3RD: DATE _____ ROUTE _____ INSTRUCTOR _____

GRADUATION RECORD

FAA KNOWLEDGE TEST: DATE _____ SCORE _____

END-OF-COURSE GRADUATION: DATE _____ RESULT _____

END-OF-COURSE EXAMINER _____

RECORDS CERTIFIED COMPLETE AND ACCURATE

DATE _____ NAME _____ TITLE _____

PREVIOUS EXPERIENCE

DUAL _____ NIGHT SOLO _____

SOLO _____ NIGHT LANDINGS _____

X-C DUAL _____ HOOD _____

X-C SOLO _____ ACTUAL IFR _____

NIGHT DUAL _____ FLIGHT TRAINING DEVICE _____

EVALUATION

FLIGHT / ORAL BY _____ DATE _____

TITLE _____

CREDIT GIVEN

GROUND HOURS: Part 141 _____ Part 61 _____ HOURS AWARDED _____

FLIGHT HOURS: Part 141 _____ Part 61 _____ HOURS AWARDED _____

TERMINATION OF TRAINING

DATE _____

CERTIFIED BY _____ _____

CHIEF INSTRUCTOR CERTIFICATE NO.

TRANSFERRED

SCHOOL _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

TRANSFER DATE _____

AIR AGENCY NO. _____

COPY ISSUED TO STUDENT: DATE _____ BY _____

List of Effective Pages

This list of effective pages shows the standing of all pages in this syllabus with regard to their revision status. The list shows the page number, the revision number and the date of the revision.

Revised pages in this syllabus will include a change bar (|) on the side of the page where changes have been made.

The Revision Process

1. Revise the pages in question.
2. Make two copies of the revised pages.
3. Correct this "List of Effective Pages" to reflect the revised pages.
4. Make two copies of this corrected "List of Effective Pages".
5. Send all four copies to the local Flight Standards District Office for approval.
6. Insert corrected pages in all syllabus copies when approval is granted.

Page	Revision	Revision Date
1	Original	05-31-2002
2	Original	05-31-2002
3	Revision 20	09-15-2019
4	Original	05-31-2002
5	Revision 21	05-13-2021
6	Revision 19	06-01-2019
7	Revision 20	09-15-2019
7a	Revision 21	05-13-2021
8	Revision 14	05-31-2016
9	Revision 20	09-15-2019
10	Original	05-31-2002
11	Original	05-31-2002
12	Revision 20	09-15-2019
13	Revision 18	09-01-2018
14	Revision 3	01-09-2014
14a	Revision 20	09-15-2019
15	Revision 20	09-15-2019
15a	Revision 20	09-15-2019
16	Revision 3	06-18-2012
16a	Revision 20	09-15-2019
17	Revision 3	06-18-2012
17a	Revision 20	09-15-2019
18	Revision 2	06-18-2012
18a	Revision 20	09-15-2019
19	Revision 4	01-09-2014
19a	Revision 3	06-18-2012
20	Revision 18	09-01-2018
20a	Revision 20	09-15-2019
21	Original	05-31-2002
22	Revision 20	09-15-2019
23	Revision 3	06-18-2012
23a	Revision 20	09-15-2019
24	Revision 11	07-18-2014
24a	Revision 20	09-15-2019
25	Revision 3	06-18-2012
25a	Revision 20	09-15-2019
26	Revision 18	09-01-2018
26a	Revision 20	09-15-2019
27	Revision 20	09-15-2019
27a	Revision 20	09-15-2019
28	Revision 11	07-18-2014
28a	Revision 20	09-15-2019
29	Revision 11	07-18-2014
29a	Revision 20	09-15-2019
30	Revision 18	09-01-2018
30a	Revision 20	09-15-2019
31	Original	05-31-2002
32	Revision 20	09-15-2019
33	Revision 4	06-18-2012
33a	Revision 20	09-15-2019
34	Revision 11	07-18-2014
34a	Revision 20	09-15-2019
35	Revision 3	06-18-2012
35a	Revision 20	09-15-2019
36	Revision 20	09-15-2019
36a	Revision 20	09-15-2019
37	Revision 20	09-15-2019
37a	Revision 15	07-14-2016
37b	Revision 15	07-14-2016
38	Revision 14	05-31-2016
38a	Revision 20	09-15-2019
39	Revision 18	09-01-2018
39a	Revision 18	09-01-2018
40	Revision 18	09-01-2018
41	Revision 1	08-03-2009
42	Revision 17	01-08-2018
43	Revision 17	01-08-2018
44	Original	05-31-2002
45	Revision 17	01-08-2018
46	Revision 17	01-08-2018
47	Revision 17	01-08-2018
48	Revision 17	01-08-2018
49	Original	05-31-2002
50	Revision 17	01-08-2018
51	Revision 17	01-08-2018
52	Revision 17	01-08-2018
53	Revision 17	01-08-2018
54	Revision 17	01-08-2018
55	Revision 17	01-08-2018
56	Revision 17	01-08-2018
57	Revision 17	01-08-2018

FAA APPROVED - OFFICE CE01
SIGNATURE & EFFECTIVE DATE:

TRAINING COURSE OUTLINE

LOCATION

The University of Dubuque, located at 2000 University Avenue, Dubuque, Iowa, 52001, holds Air Agency Certificate No. GV8S178Q. The University of Dubuque operates its pilot training school at the Dubuque Regional Airport, Dubuque, Iowa.

COURSE TITLE

Private Pilot Certification Course—Airplane Single-Engine Land

This Training Course Outline meets all the curriculum requirements for the Private Pilot Certification Course contained in Appendix B of Title 14 Code of Federal Regulation Part 141 (14 CFR Part 141). This syllabus contains separate flight training and ground training sections, which can be taught concurrently or separately.

COURSE OBJECTIVE

Students will gain the knowledge, skill and aeronautical experience necessary to meet the requirements for a Private Pilot Certificate; Airplane Single-Engine Land.

COURSE COMPLETION STANDARDS

To meet the course completion standards, students must demonstrate through knowledge, oral, flight tests, and appropriate records, that they meet the knowledge, skill and experience requirements necessary to acquire a Private Pilot Certificate, airplane category, single-engine land class rating.

MAIN OPERATIONS BASE

The Dubuque Regional Airport is the main operations base for training in this course. The airport has hard-surface runways and meets the requirements of 14 CFR 141.38 for day and night operations. Fuel services and maintenance services are available weekdays during normal working hours. Weekend and after hours fuel and maintenance are available on request.

MAIN OPERATIONS FACILITY

The school's primary flight facility is the Babka Flight Center, 10656 Airport Road, located at the Dubuque Regional Airport, Dubuque, Iowa 52003. This building conforms to the requirements of 14 CFR 141.43 for briefing areas and 14 CFR 141.45 for ground training facilities. This permanent structure has 10 briefing areas of at least 6' by 7' and 14 additional office/training rooms with a maximum number of two students per area. Each briefing/training room will have communications capabilities for contacting a Flight Service Station. The building has Wi Fi capabilities for students and instructors to access weather and flight planning applications online.

GROUND INSTRUCTIONAL FACILITIES

The primary ground instructional facilities are in the Babka Flight Center, located at the Dubuque Regional Airport, Dubuque, Iowa 52003. This facility has three classrooms with a capacity of 24 students in each. The building and rooms are heated, lighted, and ventilated to conform to local building, sanitation, and health codes.
Based on enrollment and class formats, ground schools may also be conducted on the main campus of the University of Dubuque located at 2000 University Avenue, Dubuque, Iowa 52001. The University of Dubuque is accredited by the North Central Association of the Council for Higher Education. The University's classrooms meet the requirements of the Association and conform to local building, sanitation and health codes. Campus classrooms and computer labs are available in the Myers Library, Blades Hall, Alumni Hall, Dunlap Technology Center, MTAC, Mercer-Birmingham, and the University Science Center. Classrooms range in size from 142 seats in the Dunlap Technology Center to 6 seats in the Myers library.

GROUND INSTRUCTIONAL EQUIPMENT / TRAINING AIDS

Training aids and equipment used may include the following: Whiteboards, televisions, podium, LCD/Overhead projector with screen, laptop and/or desktop and/or tablet computers, computer/video interface units for TV/LCD projector. Other aids may include airplane models, airplane parts, instrument panel posters, aviation software, multiple aviation websites, E6B flight computer, plotter, navigation charts, Instrument Terminal Procedures, and EFB's. These aids and equipment will be kept accurate and current for the relevant course of training.
An Advanced Aviation Training device (AATD) may be used in this course as outlined in 14 CFR 141 and AC 61-136. An aircraft may be used to fulfill the instrument training requirement of those lessons if the training devices are not available or desired.

TRAINING DEVICES

The FRASCA Mentor, FRASCA RTD, Redbird SD, and an ALSIM AL250 are approved Advanced Aviation Training Devices that are available for training in accordance with their respective FAA Letter of Authorization.

AIRCRAFT

Cessna 172 aircraft are available for flight training.
For day, VFR, local area flight within 25 nautical miles of Dubuque Regional Airport or an approved satellite base, an airplane can be dispatched when it meets the requirements of 14 CFR 91.205 (a)(b), and has a serviceable communications radio.
For night, VFR, local area flight within 25 nautical miles of Dubuque Regional Airport or an approved satellite base, an airplane can be dispatched when it meets the requirements of 14 CFR 91.205 (a)(c), and has a serviceable communications radio, and a serviceable landing light.
For flight outside the local area, the airplane must meet the above requirements and also be equipped with at least one serviceable VOR navigational receiver, or one panel mounted GPS receiver.

PERSONNEL

The Chief Instructor for the Private Pilot Certification Course meets the requirements for Chief Instructor as listed in the 14 CFR 141.35 and has been approved by the local FAA Flight Standards District Office.
When course enrollments and individual availabilities warrant such appointments, the University of Dubuque will request the appointment of other key personnel such as; Assistant Chief Instructors, Check Instructors and Chief Ground Instructors. All requested appointees will meet the requirements of the appropriate sections of 14 CFR 141.35, Subpart B.
Flight instructors will have a Certified Flight Instructor, Airplane Single Engine Land rating, will have received standardization, and will receive recurrent training annually.

CHIEF AND ASSISTANT CHIEF INSTRUCTORS

The Chief Flight Instructor for the Private Pilot Airplane Certification Course is Ms. Suzanne Peterson certificate #2801778.

The Chief Ground Instructor for the Private Pilot Airplane Certification Course is Ms. Polly Kadolph certificate #3689827.

The following persons have been authorized as Assistant Chief Flight Instructors for the Private Pilot Course: Mr. Michael J. Glynn certificate #2883378, Mr. Robert Anthony (Tony) Foster certificate #3213651, Mr. Kyle F. Jones certificate #3755779, Mr. Jack D. Erickson certificate #3891398, and Mr. Ching-Kuan Su certificate #3540078.

ENROLLMENT PREREQUISITES

Students must be able to write, read, speak, and understand the English language and possess an Aviation Medical Certificate prior to enrolling in the flight portion of the Private Pilot Certification Course. Students are required to obtain a Student Pilot Certificate prior to their first solo flight.

ENROLLMENT PROCEDURE

Students will be required to show a certified birth certificate or a U.S. passport establishing U.S. citizenship or national in accordance with 49 CFR 1552.3 (h). A copy of the proof of citizenship or U.S. national will be kept on file in the student's TCO. Alien flight students must apply online and be granted approval from TSA to begin flight training.

Upon enrollment in the flight portion of the training syllabus students will be issued a Certificate of Enrollment showing the date of enrollment and the course entered. Students will also receive a copy of the approved training syllabus. Students may enter the ground portion of the syllabus prior to or during the flight portion. Enrollment certificates and syllabi will be retained at UD Flight Operations at all times unless otherwise directed by the Chief Instructor. Students will have access to a copy of the University of Dubuque Student Flight Operations Manual which outlines the school's operational and safety procedures.

CREDIT FOR PREVIOUS 14 CFR PART 141 PILOT TRAINING

Flight credit may be transferred from other certificated schools to the University of Dubuque's flight program based on an oral test, flight check, written test, or any combination thereof. Students must arrange for the transmittal of flight records from the previous school to the University of Dubuque. The University will determine the amount of credit to be transferred. Credit will be entered in the student's training record along with the documents and tests on which the acceptance is based. The maximum credit given may be up to 50% of the University's approved curriculum requirements.

CREDIT FOR PREVIOUS 14 CFR PART 61 PILOT TRAINING

Flight credit may be transferred from 14 CFR Part 61 schools to the University of Dubuque's flight program based on an oral test, flight check, written test or any combination thereof. Students should submit a record of previous training from the school where it was received. The University will determine the amount of credit to be transferred. Credit will be entered in the student's training record along with the documents and tests on which the acceptance is based. The maximum credit given may be up to 25% of the University's approved curriculum requirements.

GRADING SYSTEM FOR FLIGHT TRAINING

GRADE STANDARD

3……..…...Meets Airman Certification Standards

2……..…...Meets Lesson Standards

1……..…...Needs Additional Training

D……..…...Demonstration

S……..…...Solo Flight

The above grading standard will be used to evaluate student performance. Grades will be entered on each lesson page. At the completion of each stage of training the students will be examined orally and by flight evaluation. Upon successful completion of the evaluation the student will proceed to the next stage of flight training.

AIRPORTS USED

The airports listed below are approved for use by the University of Dubuque, 14 CFR Part 141 Private Pilot students for the purpose of solo cross-country flights, to satisfy the requirements of the school's Private Pilot Certification Course syllabus. Mileage to these airports is indicated.

IOWA

Cedar Rapids (CID) - 54
Decorah (DEH) - 69
Iowa City (IOW) - 59
Independence (IIB) - 55
Muscatine (MUT) - 65
Oelwein (OLZ) - 58
Vinton (VTI) - 60
Waterloo (ALO) - 75

ILLINOIS

Freeport (FEP) - 50
Moline (MLI) - 58
Sterling (SQI) - 60

WISCONSIN

Reedsburg (C35) - 65
Monroe (EFT) - 51
Lone Rock (LNR) - 54
Madison (MSN) - 53
Baraboo (DLL) - 70

Other airports may be selected by a student, but those airports must be approved by a university flight instructor, considering the following:

1. 3000' recommended minimum runway length
2. Availability of 100LL aviation gasoline.

Instructors must ensure that all airports used meet the requirements of Title 14 CFR Part 141.38 (b) (c) (d) (e) and (f).

REVIEW LESSON PROCEDURE

During training, students may need to do additional work on lessons, or review past lessons. If an instructor needs additional lesson pages the instructor will:

- Copy a blank lesson page for the lesson concerned
- Use the copied page to record the review or additional work
- Write the word "Review" in a prominent place on the copied lesson page
- Place the added lesson page(s) sequentially behind the original lesson page

	Dual Flight	Solo Flight	Dual X-Country	Solo X-Country	Dual Night	Instrument	AATD* (Inst.)
STAGE 1	12.0	0.0	0.0	0.0	0.0	1.0	0.9
STAGE 2	10.0	2.5	5.0	0.0	3.0	1.0	0.8
STAGE 3	4.0	4.0	0.0	2.0	0.0	1.0	0.8
TOTALS	26	6.5	5.0	2.0	3.0	3.0	*2.5

Total minimum Private Pilot flight training time is 35.0 hours

26 hrs + 6.5 hrs + *2.5 hrs = 35.0 hours

*A maximum of 2.5 hours may be used in an AATD.

HOW TO USE THIS SYLLABUS

1. This syllabus was designed to be a reasonable complete list of the tasks required for the completion of each lesson. The list of tasks relieves the instructor of having to remember all of the things that should be covered and rated in each lesson. At first, the number of tasks may seem daunting; however, they flow in a natural progression from start to finish and should cause little additional load on the instructor. Some tasks may be accompanied by italicized notes. These notes are additional memory helps for the instructor, student and check pilot.
2. At the top left of each lesson page is a block labeled “HOURS”. There are three white blocks inside the black “HOURS” block. Each lesson allows for three flights or briefings. You should put the time for each flight or briefing in one of the white boxes. When a lesson is completed, that is, when every task in the lesson has a grade of “2” or better, the instructor should total up the time for the lesson and enter it at the bottom of the page in the cumulative times area.
3. Each task in a lesson has three blank lines to the left. These lines are for recording the rating of each task. Every task in a lesson must receive a rating of ”2” or better before the lesson can be considered complete. If a lesson requires more than three flights or briefings to complete the lesson, the instructor will insert and use blank copies of the original lesson to record further flights or briefings, until the lesson is satisfactorily completed.
4. Lessons may require the instructor’s and the student’s signature or initials, along with the date, airplane type, and airplane “N” number at the completion of each flight or briefing.
5. The cumulative times area at the bottom of each lesson is self-explanatory. It is the instructor’s and the student's combined responsibility to make sure this area is accurately filled out, not at the conclusion of each flight or briefing, but at the conclusion of each lesson. Be sure to carry the “TOTAL” time for a finished lesson to the “PREVIOUS” time on the next lesson.
6. The “TIME” requirement at the top of each lesson is the time required for the student to stay “on track”, time wise, throughout the syllabus. A lesson may be completed with somewhat less than the approximate time noted, but this time must then be made up in later lessons if the student is to finish the syllabus with the required amount of time, this is, 35 flight / FTD hours. Stage Checks, Lessons 7 and 15, have hours noted at the bottom of the cumulative time area. These hours are listed so instructors will know the approximated hours each student should have when they reach that lesson. Having more hours than required is not a problem. Having fewer hours than suggested is cause for the instructor to be aware of the situation and work to ensure that the student finishes the syllabus with the required number of hours. On reaching Lesson 21, the required minimum hours are listed. If a student DOES NOT have these hours then they cannot be sent for a Rating Check. The instructor will have to continue with review lessons until the minimum time is met..
7. We will use the “read and do” system when doing checklists. All checklists denoted by a √, are to be read aloud by the student; and the checklist item being read must be touched as it is read to confirm the item’s correctness of position. This procedure instills consciousness of task and thoroughness in the student. If students do not “read and do” and touch the checklist items they should be instructed to repeat the checklist.
8. All hold short lines are to be called aloud and noted aloud as to whether or not the airplane has permission to cross.

ABBREVIATIONS

acft	aircraft
airspd	airspeed
alt	altitude
approx	approximately
ARROW	Airworthiness, registration, radio license (international), operator's manual, weight and balance
ATC	Air Traffic Control
CG	center of gravity
comm	communication
Cs	constant speed
cx	correction
dist	distance
equip	equipment
ETA	estimated time of arrival
FAA	Federal Aviation Association
freq	frequency / frequencies
FSS	Flight Service Station
FTD	Flight Training Device
GPS	Global Positioning System
hdg	heading
hr	hour
ID	identify
inop	inoperative
inst	flight solely by reference to instruments while using a view limiting device
PMC	pre-maneuver checklist
MRA	Manufacturer's recommended airspeed
nav	navigation
obs	omni bearing selector
ops	operations
pre	before
prep	preparation
pwr	power
req	required
sim	simulated
TACs	Terminal Area Charts
TC	true course
VHF	very high frequency
VR-IR	Integrated flight training using visual and instrument reference
vol	volume
VOR	very high freq, omnidirectional, radio range
Vx	best angle of climb
Vy	best rate of climb
WACs	World Aeronautical Charts
xctry	cross country
xmitter	transmitter
xwind	crosswind
√	The aircraft checklist will be used

PRIVATE PILOT CERTIFICATION
Training Course Outline

STAGE ONE

Initial Flight Training

Lessons 1—7

12.0 hours (approx) of dual flight training
1.0 hours (approx) of instrument flight training (Aircraft)
0.9 hours (approx) of Advanced Aviation Training Device (AATD)

Stage One Objectives

The student will be instructed in basic flying procedures necessary for the first solo flight.

Stage One Completion Standards

This stage will be complete when the student meets all lesson standards and satisfactorily performs the Stage One Check.

Hours		

AIRPORT OPERATIONS— (BRIEFING)

OBJECTIVE: Students will become familiar with the Dubuque Regional Airport, approved satellite bases, and procedures/materials used in the Private Pilot Certification Course.
TIME: As required

AIRPORT ENVIRONMENT

____ ____ ____ Runways

____ ____ ____ Runway markings

____ ____ ____ Taxiways

____ ____ ____ Taxiway markings

____ ____ ____ RUNWAY INCURSIONS

____ ____ ____ HOLD SHORT LINES (Clearances)

____ ____ ____ Ramp areas/operations

____ ____ ____ Ramp markings

____ ____ ____ UD flight practice areas

AIRPORT SERVICES

____ ____ ____ UD Flight Operations facilities

____ ____ ____ Airport administrative facilities

____ ____ ____ Airport maintenance facilities

____ ____ ____ Aviation security

____ ____ ____ Aircraft maintenance facilities

____ ____ ____ Fueling facilities

____ ____ ____ Weather facilities

____ ____ ____ Aircraft storage facilities

AIR TRAFFIC CONTROL FACILITIES

____ ____ ____ Tower

____ ____ ____ Communication frequencies

____ ____ ____ LAHSO

____ ____ ____ Navigation facilities

TRAINING COURSE MATERIALS

____ ____ ____ Flight Operations Manual

____ ____ ____ Training Course Outline

____ ____ ____ Standardization manual

____ ____ ____ UD Safety Manual

____ ____ ____ Aircraft Flying Manual

____ ____ ____ Enrollment paperwork

____ ____ ____ Airman Certification Standards

____ ____ ____ Checklist usage

COMPLETION STANDARDS

The lesson will be complete when:

1. The student has been shown the airport environment.
2. The student has been tutored on the provided course materials.
3. The student' s enrollment papers have been completed.

Instructor	Student	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Hours		

PRIVATE PILOT LESSON 1— (DUAL) BASIC MANEUVERS

OBJECTIVE: The student will be introduced to, and practice piloting skills for activities listed.

TIME: Approximately 3.0 hours including approximately ***0.5 hours of instrument training***.

PREFLIGHT BRIEFING/SPECIAL EMPHASIS

____ ____ ____ Discussion of this lesson

____ ____ ____ Checklist usage

____ ____ ____ Wake turbulence / wind shear

____ ____ ____ Collision avoidance

____ ____ ____ ADM and risk management

____ ____ ____ RUNWAY INCURSION avoidance

____ ____ ____ Positive exchange of flight controls

EMERGENCY PROCEDURES √ (Oral review)

____ ____ ____ Forced landings, ditching

____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*

____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*

____ ____ ____ Electrical malfunctions

PREFLIGHT

____ ____ ____ Cockpit / taxi brief

____ ____ ____ Certificates & documents—*ARROW*

____ ____ ____ Preflight inspection √

____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √

____ ____ ____ Comm radio setup—*freq, vol, xmitter*

____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Begin taxi—*brake check, steering check*

____ ____ ____ Taxiing—*wind, speed, braking, hazards*

____ ____ ____ Traffic watch / Call HOLD SHORT lines

____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √

____ ____ ____ Takeoff clearance—*copy, confirm, comply*

____ ____ ____ Takeoff—*normal, crosswind*

____ ____ ____ Climbs √ - *turn, Cs (Vx, Vy, cruise), VR-IR*

____ ____ ____ Traffic pattern departure

____ ____ ____ Level-off from climb—*VR-IR*

____ ____ ____ Cruise √

BASIC MANEUVERS

____ ____ ____ Straight & level—*VR-IR*

____ ____ ____ Level turns—*shallow, medium, VR-IR*

____ ____ ____ Tracking a straight line—*wind cx, VR-IR*

____ ____ ____ Engine checks

____ ____ ____ Traffic checks

____ ____ ____ Descents √ - *turns, Cs, hi/low drag, VR-IR*

____ ____ ____ Level-off from descent—*VR-IR*

EMERGENCY PROCEDURES √ (Practical review)

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*

____ ____ ____ Landing with a flat tire

____ ____ ____ Forced landings—*power, no power*

PRIVATE PILOT LESSON 1— (DUAL) BASIC MANEUVERS
(CONTINUED)

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Pattern entry / traffic pattern

____ ____ ____ Landing √

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Stabilized approach

____ ____ ____ Slips to a landing

____ ____ ____ Flaps 0° - 10° - 20° - 30°

____ ____ ____ Landings—*normal, crosswind*

____ ____ ____ Roundout—*height, crosswind cx*

____ ____ ____ Touchdown—*drift, centerline, full stall*

____ ____ ____ Go around √

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √ - *wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / update syllabus and logbook

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±300 feet
2. Headings and rollouts ±20°
3. Airspeed within ±20 knots

Instructor _____ Student _____ Date _____ Acft Type _____ N# _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 2—(AATD or ACFT) GROUND AND FLIGHT PROCEDURES
OBJECTIVE: The student will be introduced to standard ground and flight procedures.
TIME: Approximately 0.9 hour of instruction.

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of this lesson
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ Collision avoidance
____ ____ ____ SRM
____ ____ ____ RUNWAY INCURSION avoidance
____ ____ ____ Positive aircraft control

EMERGENCY PROCEDURES √ (Oral review)

____ ____ ____ Forced landings, ditching
____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
____ ____ ____ Electrical—*over-voltage light, ammeter discharge*

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates & documents—*ARROW*

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, xmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Begin taxi—*brake check, steering check*
____ ____ ____ Taxiing—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / Call HOLD SHORT lines
____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Level-off from climb—*VR-IR*
____ ____ ____ Cruise √

BASIC MANEUVERS

____ ____ ____ Straight & level—*VR-IR*
____ ____ ____ Level turns—*VR-IR*
____ ____ ____ Tracking a straight line—*wind cx*
____ ____ ____ Engine checks / Traffic checks
____ ____ ____ Descents √ - *turns, Cs, hi/low drag, VR-IR*
____ ____ ____ Level-off from descent—*VR-IR*

EMERGENCY PROCEDURES √ (Practical review)

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*
____ ____ ____ Landing with a flat tire
____ ____ ____ Forced landings—*power, no power*

SHUTDOWN

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft
____ ____ ____ Debrief / update syllabus and logbook

PRIVATE PILOT LESSON 2— (AATD or ACFT) GROUND AND FLIGHT PROCEDURES (CONTINUED)

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±300 feet
2. Headings ±20°
3. Airspeed ±20 knots

Instructor	Student	Date	Acft Type	N#
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 3— (DUAL) GROUND REFERENCE MANEUVERS

OBJECTIVE: The student will apply previously learned skills to Ground Reference Maneuvers.

TIME: Approximately 2.5 hours including approximately ***0.5 hours of instrument training*.**

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of this lesson
____ ____ ____ ADM and risk management
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ Positive aircraft control
____ ____ ____ Collision avoidance
____ ____ ____ RUNWAY INCURSION avoidance
____ ____ ____ CFIT/wire strike avoidance

EMERGENCY PROCEDURES √ (Oral review)

____ ____ ____ Forced landings, ditching
____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
____ ____ ____ Electrical—*over-voltage light, ammeter discharge*

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates & documents - ARROW
____ ____ ____ Preflight inspection √
____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, xmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Begin taxi—*brake check, steering check*
____ ____ ____ Positive exchange of controls
____ ____ ____ Taxiing—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / Call HOLD SHORT lines
____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind*
____ ____ ____ Climbs √ - *turn, Cs (Vx, Vy, cruise), VR-IR*
____ ____ ____ Traffic pattern departure
____ ____ ____ Level-off from climb—*VR-IR*
____ ____ ____ Cruise √

BASIC INSTRUMENT FLIGHT (IR)

____ ____ ____ Level flight with turns
____ ____ ____ Climbs with turns
____ ____ ____ Descents with turns

GROUND REFERENCE MANEUVERS

____ ____ ____ PMC, emerg landing area, clearing turns
____ ____ ____ Rectangular patterns—*wind, dist, altitude*
____ ____ ____ Turns around a point—*wind, dist, altitude*
____ ____ ____ S-Turns—*wind, dist, altitude*
____ ____ ____ Traffic watch / instrument check

EMERGENCY PROCEDURES √ (Practical review)

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*
____ ____ ____ Landing with a flat tire
____ ____ ____ Forced landings—*power, no power*

PRIVATE PILOT LESSON 3— (DUAL) GROUND REFERENCE MANEUVERS
(CONTINUED)

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Pattern entry / traffic pattern

____ ____ ____ Landing √

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Stabilized approach

____ ____ ____ Slips to a landing

____ ____ ____ Flaps 0° - 10° - 20° - 30°

____ ____ ____ Landings—*normal, crosswind*

____ ____ ____ Roundout—*height, crosswind cx*

____ ____ ____ Touchdown—*drift, centerline, full stall*

____ ____ ____ Go around √

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √ - *wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / update syllabus and logbook

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±250 feet
2. Headings ±15°
3. Airspeed ±15 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 4— (DUAL) ADVANCED FLIGHT MANEUVERS
OBJECTIVE: The student will apply previously learned skills to Advanced Flight Maneuvers.
TIME: Approximately 3.0 hours of flight instruction.

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of this lesson
____ ____ ____ Positive aircraft control
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ ADM and risk management
____ ____ ____ Collision avoidance
____ ____ ____ LAHSO
____ ____ ____ RUNWAY INCURSION avoidance
____ ____ ____ Stall/spin awareness

EMERGENCY PROCEDURES √ (Oral review)

____ ____ ____ Forced landings, ditching
____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
____ ____ ____ Electrical—*over-voltage light, ammeter discharge*
____ ____ ____ Emergency descent

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates & documents—*ARROW*
____ ____ ____ Preflight inspection √
____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, xmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Begin taxi—*brake check, steering check*
____ ____ ____ Taxiing—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / Call HOLD SHORT lines
____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind*
____ ____ ____ Climbs √ - *turn, Cs (Vx, Vy, cruise), VR-IR*
____ ____ ____ Traffic pattern departure
____ ____ ____ Level-off from climb—*VR-IR*
____ ____ ____ Cruise √

ADVANCED MANEUVERS

____ ____ ____ PMC, emerg landing area, clearing turns
____ ____ ____ Slow flight—*P-factor, torque, heading, alt*
____ ____ ____ Stalls—*power-off, power-on*
____ ____ ____ Spin awareness

EMERGENCY PROCEDURES √ (Practical review)

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*
____ ____ ____ Landing with a flat tire
____ ____ ____ Forced landings—*power, no power*
____ ____ ____ Emergency descent

PRIVATE PILOT LESSON 4— (DUAL) ADVANCED FLIGHT MANEUVERS (CONTINUED)

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Pattern entry / traffic pattern

____ ____ ____ Landing √

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Stabilized approach

____ ____ ____ Slips to a landing

____ ____ ____ Flaps 0° - 10° - 20° - 30°

____ ____ ____ Landings—*normal, crosswind*

____ ____ ____ Roundout—*height, crosswind cx*

____ ____ ____ Touchdown—*drift, centerline, full stall*

____ ____ ____ Go around √

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Taxi √ - *wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / update syllabus and logbook

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±250 feet
2. Headings ±15°
3. Airspeed ±15 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 5— (DUAL) TAKEOFFS AND LANDINGS

OBJECTIVE: The student will apply previously learned skills to takeoffs and landings and will learn to operate safely in the airport traffic pattern area.

TIME: Approximately 2.0 hours of flight instruction.

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of this lesson

____ ____ ____ SRM and ADM

____ ____ ____ Wake turbulence / wind shear

____ ____ ____ Stall/spin awareness

____ ____ ____ Collision avoidance

____ ____ ____ Positive aircraft control

____ ____ ____ RUNWAY INCURSION avoidance

____ ____ ____ LAHSO

EMERGENCY PROCEDURES √ (Oral review)

____ ____ ____ Forced landings, ditching

____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*

____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*

____ ____ ____ Electrical malfunctions

____ ____ ____ Emergency descent

PREFLIGHT

____ ____ ____ Cockpit √

____ ____ ____ Certificates & documents—*ARROW*

____ ____ ____ Preflight inspection √

____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √

____ ____ ____ Comm radio setup—*freq, vol, xmitter*

____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Begin taxi—*brake check, steering check*

____ ____ ____ Positive exchange of controls

TAXI (cont.)

____ ____ ____ Taxiing—*wind, speed, braking, hazards*

____ ____ ____ Traffic watch / Call HOLD SHORT lines

____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √

____ ____ ____ Takeoff clearance—*copy, confirm, comply*

____ ____ ____ Takeoff—*normal, crosswind*

____ ____ ____ Climbs √ - *turn, Cs (Vx, Vy, cruise), VR-IR*

____ ____ ____ Traffic pattern departure

____ ____ ____ Level-off from climb—*VR-IR*

____ ____ ____ Cruise √

CROSSWIND

____ ____ ____ Turn 90° *± wind*

____ ____ ____ Check traffic

____ ____ ____ Level off at pattern altitude

____ ____ ____ Power for pattern speed

____ ____ ____ Trim

EMERGENCY PROCEDURES √ (Practical review)

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*

____ ____ ____ Landing with a flat tire

____ ____ ____ Forced landings—*power, no power*

____ ____ ____ Emergency descent

DOWNWIND

____ ____ ____ Track straight downwind *± wind*

____ ____ ____ Landing √

____ ____ ____ Check traffic and wind

____ ____ ____ Hold altitude

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Begin descent on the numbers

PRIVATE PILOT LESSON 5— (DUAL) TAKEOFFS AND LANDINGS (CONTINUED)

BASE

____ ____ ____ Turn 90° *± wind*

____ ____ ____ Check traffic

____ ____ ____ Flaps, speed, trim, traffic

FINAL

____ ____ ____ Turn onto centerline *± wind*

____ ____ ____ Check traffic

____ ____ ____ Flap, speed, trim, traffic

____ ____ ____ Stabilized approach

____ ____ ____ Slips to a landing

____ ____ ____ Flaps 0° - 10° - 20° - 30°

____ ____ ____ Crosswind cx

LANDING

____ ____ ____ Go around √

____ ____ ____ Landings—*normal, crosswind*

____ ____ ____ Roundout—*height, crosswind cx*

____ ____ ____ Touchdown—*drift, centerline, full stall*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √ - *wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / update syllabus and logbook

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±250 feet
2. Headings ±15°
3. Airspeed ±15 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 6— (BRIEFING) PRE-SOLO

OBJECTIVE: The student will demonstrate knowledge necessary to act as PIC on local solo flights.

TIME: As required.

PILOT ASSESSMENT

____	____	____	Hypoxia, hyperventilation
____	____	____	Dehydration, fatigue
____	____	____	Alcohol, drugs, carbon monoxide
____	____	____	Ear/sinus, vertigo, motion sickness
____	____	____	Emotional, immature behavior
____	____	____	SRM
____	____	____	ADM and risk management

CERTIFICATES—STUDENT

____	____	____	Syllabus correct
____	____	____	Verification of Student Certificate
____	____	____	Verification of Medical Certificate
____	____	____	Pre-solo Aeronautical Knowledge Test and Endorsement

DOCUMENTS—AIRPLANE

____	____	____	Operating limitations
____	____	____	ARROW
____	____	____	Airworthiness directives, Service Bulletins
____	____	____	Annual / 100 hr / Progressives

THE AIRPLANE

____	____	____	Checklist usage
____	____	____	Performance, limitations
____	____	____	Weight and balance
____	____	____	Ignition system
____	____	____	Electrical system
____	____	____	Cabin and carb heat
____	____	____	Fuel system
____	____	____	Oil system
____	____	____	Aircraft performance charts
____	____	____	Carburetor icing
____	____	____	Aircraft preflight
____	____	____	Collision avoidance
____	____	____	Wake turbulence avoidance
____	____	____	Wind shear avoidance
____	____	____	Positive exchange of controls
____	____	____	Stall/spin awareness

THE FLIGHT ENVIRONMENT

____	____	____	Weather
____	____	____	TFRs and SUAs
____	____	____	Local geography—map the local area
____	____	____	Traffic pattern
____	____	____	Radio procedures
____	____	____	Lost procedures
____	____	____	Stall/spin awareness
____	____	____	Runway incursion avoidance

PART 61

____	____	____	Solo privileges
____	____	____	Solo limitations 61.89
____	____	____	Medical class & duration 61.23
____	____	____	UD solo procedures
____	____	____	Aviation security

PART 91

____	____	____	Pilot in command 91.3
____	____	____	Operating limitations 91.9
____	____	____	Reckless ops 91.13
____	____	____	Dropping objects 91.15
____	____	____	Alcohol / drugs 91.17
____	____	____	Preflight actions 91.103
____	____	____	Seatbelts & harnesses 91.107
____	____	____	Near other acft 91.111
____	____	____	Right-of-way rules 91.113
____	____	____	Aircraft speeds 91.117
____	____	____	Minimum altitudes 91.119
____	____	____	Altimeter setting 91.121
____	____	____	Light gun signals 91.125
____	____	____	Fuel req 91.151
____	____	____	Airspace 91.126-91.135
____	____	____	VFR minimums 91.155

PART 91 (cont.)

____	____	____	CFIT and wire strike avoidance
____	____	____	Special VFR 91.157
____	____	____	VFR cruise altitudes 91.159
____	____	____	Operations of nav lights 91.209
____	____	____	Instr / equip req 91.205
____	____	____	ELTs 91.207
____	____	____	Inop equipment 91.213

EMERGENCY PROCEDURES √ (Oral review)

____	____	____	Engine failure—*takeoff run, after takeoff, inflight*
____	____	____	Forced landings—*power, no power, ditching*
____	____	____	Fire—*startup, engine or electrical inflight, cabin, wing*
____	____	____	Emergency descent
____	____	____	Icing—*structural inflight, static port blockage, carb ice*
____	____	____	Landing—*with a flat tire*
____	____	____	Electrical malfunctions

SYSTEMS AND EQUIPMENT MALFUNCTIONS (Oral review)

____	____	____	Partial or complete power loss
____	____	____	Engine roughness or overheat
____	____	____	Carburetor or induction icing
____	____	____	Loss of oil pressure
____	____	____	Fuel starvation
____	____	____	Electrical malfunction
____	____	____	Inoperative or runaway trim
____	____	____	Inadvertent door or window opening
____	____	____	Vacuum/pressure and associated flight instrument malfunction
____	____	____	Pitot/static
____	____	____	Landing gear or flap malfunction
____	____	____	Smoke/fire/engine compartment fire
____	____	____	Any other emergency appropriate to the airplane

COMPLETION STANDARDS

The student must demonstrate sufficient knowledge in the lesson areas to rate at least a 2 on each item and successfully complete the UD pre-solo exam.

Instructor	Student	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Hours		

PRIVATE PILOT LESSON 7 - (DUAL) STAGE ONE CHECK

OBJECTIVE: The student will demonstrate competent piloting skills for the procedures listed.

TIME: Approximately 1.0 hour.

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of lesson

____ ____ ____ SRM

____ ____ ____ Students certificates and syllabus

____ ____ ____ LAHSO

____ ____ ____ Wake turbulence / wind shear

____ ____ ____ Checklist usage

____ ____ ____ Collision avoidance

____ ____ ____ Stall/spin awareness

____ ____ ____ RUNWAY INCURSION avoidance

____ ____ ____ ADM and risk management

____ ____ ____ Weather analysis

____ ____ ____ Crosswind component

____ ____ ____ Positive aircraft control

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Fire—*startup, engine or electrical in-flight, cabin, wing*

____ ____ ____ Icing—*structural inflight, static port blockage, induction ice*

____ ____ ____ Electrical malfunction

____ ____ ____ *Forced landing—power, no power, ditching*

____ ____ ____ Emergency descent

PREFLIGHT

____ ____ ____ Cockpit √

____ ____ ____ Certificates and documents—ARROW

____ ____ ____ Preflight inspection checklist √

____ ____ ____ Airplane servicing

____ ____ ____ Aviation security

STARTUP

____ ____ ____ Engine start √

____ ____ ____ Comm radio setup—*freq, vol, transmitter*

____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Begin taxi—*brake check, steering check*

____ ____ ____ Positive exchange of controls

____ ____ ____ Taxiing—*wind, speed, braking, hazards*

____ ____ ____ Traffic watch / Call HOLD SHORT lines

____ ____ ____ Runup √

TAKEOFF / CLIMB

____ ____ ____ Takeoff √

____ ____ ____ Takeoff clearance—*copy, confirm, comply*

____ ____ ____ Takeoff—*normal, crosswind, aborted*

____ ____ ____ Tracks centerline *± wind*

____ ____ ____ Climbs √—*with turns, Cs (Vx, Vy, cruise)*

CROSSWIND

____ ____ ____ Turns 90° *± wind*

____ ____ ____ Checks traffic

____ ____ ____ Levels off at pattern altitude

____ ____ ____ Power for pattern speed

____ ____ ____ Trims

DOWNWIND

____ ____ ____ Tracks straight downwind *± wind*

____ ____ ____ Landing √

____ ____ ____ Checks traffic and wind

____ ____ ____ Holds altitude

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Begins descent

BASE

____ ____ ____ Turns 90° *± wind*

____ ____ ____ Checks traffic

____ ____ ____ Flaps, speed, trim

PRIVATE PILOT LESSON 7
(DUAL) STAGE ONE CHECK
(CONTINUED)

FINAL

____ ____ ____ Tracks centerline *± wind*

____ ____ ____ Landing √

____ ____ ____ Checks traffic and wind

____ ____ ____ Holds altitude

____ ____ ____ Landing clearance—*copy, confirm, comply*

LANDING

____ ____ ____ Landings—normal, crosswind

____ ____ ____ Slips to a landing

____ ____ ____ Flaps 0° -10° -20° (select two and circle)

____ ____ ____ Go around √

____ ____ ____ Roundout

____ ____ ____ Holds centerline

____ ____ ____ Allows no drift

____ ____ ____ Full stall landing

____ ____ ____ Positive aircraft control

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Landing —*with a flat tire*

____ ____ ____ Engine failure—*takeoff run, pattern*

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / Update TCO and logbook

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. The standards are as follows:

1. Altitude ±150 feet
2. Headings / rollouts ±15º
3. Airspeed ±15 knots

Instructor _____ Student _____ Date _____ Acft Type _____ N# _____

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											
		(±12)	(0)	(0)	(±1.0)	(±1.0)	(0)	(0)	(0)	(±12)	(±2.0)

PRIVATE PILOT LESSON 7

STAGE ONE CRITIQUE

COMMENTS

1 ❑ This stage check performance indicates that additional review is necessary.

A. Do Review Lessons on all items marked "1" until your Instructor indicates a satisfactory "2".

B. Insert the Review Lesson sheets following this page.

C. Return to a check instructor.

Check Instructor _____ Student _____ Date _____

2 ❑ This stage check was performed in a satisfactory manner. Move on to the next stage.

Check Instructor _____ Student _____ Date _____

PRIVATE PILOT CERTIFICATION
Training Course Outline

STAGE TWO

Lessons 8 –15

10.0 hours (approx) of dual flight training

1. Consolidation of flight skills previously introduced
2. Cross-country flight training
3. 3.0 hours (minimum) of dual night flight training to include:
   One cross-country flight of more than 100 nautical miles total distance, and…
   10 takeoffs and landings to a full stop, at night, each landing involving a flight in the traffic pattern at an airport

2.5 hours (approx) of solo flight training
1.0 hour (approx) of instrument flight training
0.8 hours (approx) of AATD training

Stage Two Objectives

The student will complete first solo flight.

The student will consolidate previously introduced skills,

and be instructed in cross-country planning and flying procedures.

Stage Two Completion Standards

This stage will be complete when the student has completed each task in each lesson with a grade of 2 or better and has passed the Stage Two Check.

Hours		

PRIVATE PILOT LESSON 8— (DUAL AND SOLO) DUAL REVIEW AND FIRST SOLO

OBJECTIVE: Review of maneuvers the instructor deems necessary prior to first solo flight.

TIME: Approx 1.0 hour dual and approx 0.5 solo flight.

PREFLIGHT BRIEFING /SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of lesson

____ ____ ____ Positive aircraft control

____ ____ ____ Wake turbulence / wind shear

____ ____ ____ Checklist usage

____ ____ ____ Collision avoidance

____ ____ ____ Stall/spin awareness

____ ____ ____ RUNWAY INCURSION avoidance

____ ____ ____ ADM/SRM and risk management

____ ____ ____ Endorsements—Logbook and Student Pilot Certificate

____ ____ ____ LAHSO

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Fire—startup, engine or electrical inflight, cabin, wing

____ ____ ____ Icing—structural inflight, static port blockage, carb ice

____ ____ ____ Electrical malfunctions

____ ____ ____ Emergency descent

____ ____ ____ Forced landing—power, no power, ditching

PREFLIGHT

____ ____ ____ Cockpit √

____ ____ ____ Certificates and documents—ARROW

____ ____ ____ Preflight inspection checklist √

____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √

____ ____ ____ Comm radio setup—*freq, vol,* transmitter

____ ____ ____ Nav radio setup—freq*, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Positive exchange of controls

____ ____ ____ Begin taxi—*brake check, steering check*

____ ____ ____ Taxiing—*wind, speed, braking, hazards*

____ ____ ____ Traffic watch / Call HOLD SHORT lines

____ ____ ____ Runup √

TAKEOFF / CLIMB

____ ____ ____ Takeoff √

____ ____ ____ Takeoff clearance—copy, confirm, comply

____ ____ ____ Takeoff—*normal, crosswind, aborted*

____ ____ ____ Tracks centerline *± wind*

____ ____ ____ Climbs √—*with turns, Cs (Vx, Vy, cruise)*

CROSSWIND

____ ____ ____ Turns 90° *± wind*

____ ____ ____ Checks traffic

____ ____ ____ Levels off at pattern altitude

____ ____ ____ Power for pattern speed

____ ____ ____ Trims

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Landing —*with a flat tire*

____ ____ ____ Engine failure—*takeoff run, pattern*

PRIVATE PILOT LESSON 8

(DUAL AND SOLO) DUAL REVIEW AND FIRST SOLO

(CONTINUED)

DOWNWIND

____ ____ ____ Tracks straight downwind *± wind*

____ ____ ____ Landing √

____ ____ ____ Checks traffic and wind

____ ____ ____ Holds altitude

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Begins descent

BASE

____ ____ ____ Turns 90° *± wind*

____ ____ ____ Checks traffic

____ ____ ____ Flaps, speed, trim

LANDING

____ ____ ____ Landings—normal, crosswind

____ ____ ____ Go around √

____ ____ ____ Roundout—*height, crosswind cx*

____ ____ ____ Touchdown—*full stall, drift, centerline*

____ ____ ____ Stop/go taxi back √

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Dual debrief / Update TCO and logbook

FIRST SOLO FLIGHT

3 takeoffs, patterns, and landings *(taxibacks)*

Date _____ Instructor _____ Student _____

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. The standards are as follows:

1. Altitude ±150 feet
2. Headings / rollouts ±15º
3. Airspeed within ±15 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 9— (DUAL) REVIEW OF MANEUVERS

OBJECTIVE: The student will practice previously learned piloting skills and be introduced to navigation and steep turns. Short and soft landings will be introduced as well.

TIME: Approx 2.0 hours of flight instruction.

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of lesson
____ ____ ____ Positive aircraft control
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ LAHSO
____ ____ ____ Collision avoidance
____ ____ ____ Checklist usage
____ ____ ____ RUNWAY INCURSION avoidance
____ ____ ____ CFIT/Wire strike avoidance

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Fire—*startup, engine or electrical in-flight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
____ ____ ____ Electrical malfunctions
____ ____ ____ *Forced landing—power, no power, ditching*
____ ____ ____ Emergency descent

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates and documents—ARROW
____ ____ ____ Preflight inspection checklist √
____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, transmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Positive exchange of controls
____ ____ ____ Begin taxi—*brake check, steering check*
____ ____ ____ Taxiing—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / Call HOLD SHORT lines
____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind, short, soft*
____ ____ ____ Climbs √—*with turns, Cs (Vx, Vy, cruise)*
____ ____ ____ Traffic pattern departure
____ ____ ____ Level off from climb—*VR-IR*
____ ____ ____ Cruise √—*VR-IR*
____ ____ ____ Engine checks, traffic checks

NAVIGATION

____ ____ ____ Pilotage / Dead reckoning
____ ____ ____ VOR / Tracking / Intercepting
____ ____ ____ GPS navigation / Tracking
____ ____ ____ TFRs and SUAs

ADVANCED MANEUVERS

____ ____ ____ Clearing turns, emerg landing area, PMC
____ ____ ____ Slow flight—P-factor, torque, heading, alt
____ ____ ____ Stalls—power-off, power-on
____ ____ ____ Steep turns
____ ____ ____ Spin awareness
____ ____ ____ Descents √
____ ____ ____ Level-off from descent—*VR-IR*

GROUND REFERENCE MANEUVERS

____ ____ ____ PMC, emerg landing area, clearing turns
____ ____ ____ Rectangular patterns—*wind, dist, altitude*
____ ____ ____ Turns around a point—*wind, dist, altitude*
____ ____ ____ S-Turns—*wind, dist, altitude*
____ ____ ____ Traffic watch / instrument check

PRIVATE PILOT LESSON 9
(DUAL) REVIEW OF MANEUVERS
(CONTINUED)

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Landing —*with a flat tire*

____ ____ ____ Engine failure—*takeoff run, pattern*

____ ____ ____ Emergency descent

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Pattern entry

____ ____ ____ Landing √

____ ____ ____ Traffic Pattern

____ ____ ____ Landing clearance—copy, confirm, comply

____ ____ ____ Stabilized approach

____ ____ ____ Slips to a landing

____ ____ ____ Flaps 0° -10° -20° (select one and circle)

____ ____ ____ Go around √

____ ____ ____ Roundout—*height, crosswind control*

____ ____ ____ Landings—normal, crosswind, short, soft

____ ____ ____ Touchdown—*full stall, drift, centerline*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / Update TCO and logbook

COMPLETION STANDARDS

The lesson will be complete when all areas have a grade of 2 or better. The standards are as follows:

1. Altitude ±150 feet
2. Headings / rollouts ±15º
3. Airspeed ±15 knots

Instructor _____ Student _____ Date _____ Acft Type _____ N# _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 10— (SOLO) REVIEW OF MANEUVERS
OBJECTIVE: Student will practice the previously learned piloting skills.
TIME: Approx 2.0 hour.

PREFLIGHT BRIEFING /SPECIAL EMPHASIS AREAS

- ____ ____ ____ Discussion of lesson
- ____ ____ ____ SRM, ADM and risk management
- ____ ____ ____ Wake turbulence / wind shear
- ____ ____ ____ CFIT/wire strike avoidance
- ____ ____ ____ Collision avoidance
- ____ ____ ____ Checklist usage
- ____ ____ ____ Spin awareness
- ____ ____ ____ Positive aircraft control
- ____ ____ ____ RUNWAY INCURSION avoidance
- ____ ____ ____ Solo endorsement—current
- ____ ____ ____ LAHSO

EMERGENCY PROCEDURES √ *(Oral review)*

- ____ ____ ____ Landing—*with a flat tire*
- ____ ____ ____ Fire—*startup, engine or electrical in-flight, cabin, wing*
- ____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
- ____ ____ ____ Electrical malfunctions
- ____ ____ ____ Engine failure—*take off run, pattern*
- ____ ____ ____ Emergency descent

PREFLIGHT

- ____ ____ ____ Cockpit √
- ____ ____ ____ Certificates and documents—ARROW
- ____ ____ ____ Preflight inspection √
- ____ ____ ____ Airplane servicing

STARTUP

- ____ ____ ____ Engine start √
- ____ ____ ____ Comm radio setup—*freq, vol, transmitter*
- ____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

- ____ ____ ____ Taxi √ / taxi brief
- ____ ____ ____ Taxi clearance—*copy, confirm, comply*
- ____ ____ ____ Begin taxi—*brake check, steering check*
- ____ ____ ____ Taxiing—*wind, speed, braking, hazards*
- ____ ____ ____ Traffic watch / Call HOLD SHORT lines
- ____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

- ____ ____ ____ Takeoff √
- ____ ____ ____ Takeoff clearance—*copy, confirm, comply*
- ____ ____ ____ Takeoff—*normal, crosswind, short, soft*
- ____ ____ ____ Climbs √ - *with turns, Cs (Vx, Vy, cruise), VR*
- ____ ____ ____ Traffic pattern departure
- ____ ____ ____ Level-off from climb—*VR*
- ____ ____ ____ Cruise √—*VR*
- ____ ____ ____ *Engine checks, traffic checks*

NAVIGATION

- ____ ____ ____ Pilotage / dead reckoning / VOR / GPS / tracking
- ____ ____ ____ TFRs and SUAs

ADVANCED MANEUVERS

- ____ ____ ____ PMC, emerg landing area, clearing turns
- ____ ____ ____ Slow flight—P-factor, torque, heading, alt
- ____ ____ ____ Stalls—power-off, power-on
- ____ ____ ____ Steep turns
- ____ ____ ____ Descents √
- ____ ____ ____ Level-off from descent—*VR*

PRIVATE PILOT LESSON 10
(SOLO) REVIEW OF MANEUVERS
(CONTINUED)

GROUND REFERENCE MANEUVERS

____ ____ ____ Clearing turns, emerg landing area, PMC

____ ____ ____ Rectangular patterns—*wind, dist, altitude*

____ ____ ____ Turns around a point—*wind, dist, altitude*

____ ____ ____ S-Turns—*wind, dist, altitude*

____ ____ ____ Traffic watch / instrument check

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Pattern entry

____ ____ ____ Landing √

____ ____ ____ Traffic Pattern

____ ____ ____ Landing clearance—copy, confirm, comply

____ ____ ____ Stabilized approach

____ ____ ____ Slips to a landing

____ ____ ____ Flaps 0° -10° -20° (select one and circle)

____ ____ ____ Go around √

____ ____ ____ Landings—normal, crosswind, short, soft

____ ____ ____ Roundout—*height, crosswind control*

____ ____ ____ Touchdown—*full stall, drift, centerline*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Stop/go taxi back √

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Dual debrief / Update TCO and logbook

RELEASED FOR SOLO

Date _____ Instructor _____

Date _____ Instructor _____

Date _____ Instructor _____

COMPLETION STANDARDS

The lesson will be complete when the student has practiced all areas.

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual FTD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/FTD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 11— (BRIEFING) CROSS-COUNTRY
OBJECTIVE: The student will demonstrate the ability to plan a VFR, cross-country trip.
TIME: As required.

WEATHER INFORMATION

____ ____ ____ Current weather charts
____ ____ ____ Forecast weather charts
____ ____ ____ Winds aloft reports
____ ____ ____ METARS / TAFs / FDs
____ ____ ____ Wind shear reports
____ ____ ____ PIREPs, SIGMETs, AIRMETs
____ ____ ____ Icing freezing level info

PUBLICATIONS

____ ____ ____ Sectional
____ ____ ____ Aeronautical Info Manual (AIM)
____ ____ ____ Airport / Facility Directories
____ ____ ____ Review appropriate FARs
____ ____ ____ NOTAMS

FLIGHT PLANNING

____ ____ ____ SRM, ADM and risk management
____ ____ ____ Finding runway lengths
____ ____ ____ Drawing the True Course (TC)
____ ____ ____ Marking obstructions to flight
____ ____ ____ Measuring TC and mileage
____ ____ ____ Flight log preparation
____ ____ ____ VOR navigation
____ ____ ____ GPS navigation
____ ____ ____ Dead reckoning / Pilotage
____ ____ ____ Magnetic compass
____ ____ ____ Performance charts
____ ____ ____ Fuel planning
____ ____ ____ Weight and balance
____ ____ ____ Go / No-go decisions
____ ____ ____ Alternate plans
____ ____ ____ Filing a VFR flight plan

COMMUNICATIONS

____ ____ ____ Flight Service Stations
____ ____ ____ Center--*frequencies*
____ ____ ____ Unicom, Multicom
____ ____ ____ Emergency--121.5
____ ____ ____ Position reporting

AIRSPACE

____ ____ ____ Traffic patterns - *entry, exit, uncontrolled*
____ ____ ____ Class A-B-C-D-E-G
____ ____ ____ SUAs, TFRs, SFRAs
____ ____ ____ VFR cruising altitudes

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Engine failure - *takeoff run, after takeoff, inflight*
____ ____ ____ Forced landings - *power, no power, ditching*
____ ____ ____ Fire - *startup, engine or electrical inflight, cabin, wing*
____ ____ ____ Icing - *structural inflight, static port blockage, carb ice*
____ ____ ____ Landing - *with a flat tire*
____ ____ ____ Electrical malfunctions
____ ____ ____ Emergency descent

PRIVATE PILOT LESSON 11
(BRIEFING) CROSS-COUNTRY
(CONTINUED)

SYSTEMS AND EQUIPMENT MALFUNCTIONS

____	____	____	Partial or complete power loss
____	____	____	Engine roughness or overheat
____	____	____	Carburetor or induction icing
____	____	____	Loss of oil pressure
____	____	____	Fuel starvation
____	____	____	Electrical malfunction
____	____	____	Vacuum/pressure and associated flight instrument malfunction
____	____	____	Pitot/static
____	____	____	Landing gear or flap malfunction
____	____	____	Inoperative or runaway trim
____	____	____	Inadvertent door or window opening
____	____	____	Structural icing
____	____	____	Smoke/fire/engine compartment fire
____	____	____	Any other emergency appropriate to the airplane

IN-FLIGHT

____	____	____	Opening the flight plan
____	____	____	Navigation procedures
____	____	____	Navigation log upkeep
____	____	____	Figuring groundspeed and ETE
____	____	____	Lost procedures
____	____	____	Equipment failures
____	____	____	Magnetic compass operations
____	____	____	Weather problems
____	____	____	Reporting weather
____	____	____	Diversion to an alternate
____	____	____	Instrument flight
____	____	____	In-flight visibility estimating

DESTINATION

____	____	____	Airplane securing
____	____	____	Closing the flight plan
____	____	____	Complete syllabus and logbook

COMPLETION STANDARDS

This lesson will be complete when the student has a thorough understanding of the topics listed, and a grade of 2 or better.

Instructor	Student	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

COMMENTS

_____

_____

_____

_____

_____

_____

Hours		

PRIVATE PILOT LESSON 12—(AATD OR ACFT) BASIC INSTRUMENT FLIGHT AND NAVIGATION

OBJECTIVE: The student will learn basic instrument flight and navigation skills. Day or night config.

TIME: Approx 0.8 hours. **Instrument**

PREFLIGHT BRIEFING

____ ____ ____ Discussion of lesson

____ ____ ____ Wake turbulence / wind shear

____ ____ ____ Collision avoidance

____ ____ ____ RUNWAY INCURSION avoidance

____ ____ ____ Review of all emergency checklists √

PREFLIGHT

____ ____ ____ Cockpit √

____ ____ ____ Certificates and documents—ARROW

____ ____ ____ Preflight inspection checklist √

____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √

____ ____ ____ Comm radio setup—*freq, vol, transmitter*

____ ____ ____ Nav radio setup—*freq, ID, set course*

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √

____ ____ ____ Takeoff clearance—*copy, confirm, comply*

____ ____ ____ Takeoff—*normal, crosswind*

____ ____ ____ Climbs √

____ ____ ____ Pattern departure

BASIC INSTRUMENT FLIGHT

____ ____ ____ Climbs—with turns, Cs (Vx, Vy, cruise)

____ ____ ____ Level-off from climbs

____ ____ ____ Scanning

____ ____ ____ Straight and level

____ ____ ____ Level turns to headings

____ ____ ____ Unusual attitude recovery

____ ____ ____ Descents with turns (constant airspeed)

____ ____ ____ Level offs from descents

NAVIGATION

____ ____ ____ VOR/HSI—frequencies, ID, set OBS

____ ____ ____ VOR/HSI—course intercepting

____ ____ ____ VOR/HSI—course tracking

____ ____ ____ VOR/HSI—position locating

____ ____ ____ GPS—entering DIRECT TO identifiers

____ ____ ____ GPS—reading other navigation pages

____ ____ ____ GPS—using the map page

____ ____ ____ GPS—using the NEAREST feature

POSTFLIGHT

____ ____ ____ Shutdown √

____ ____ ____ Close flight plan

____ ____ ____ Debrief

____ ____ ____ Update syllabus and logbook

PRIVATE PILOT LESSON 12
(AATD OR ACFT) BASIC INSTRUMENT FLIGHT AND NAVIGATION
(CONTINUED)

COMPLETION STANDARDS

This lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±250 feet
2. Headings and rollouts ±15°
3. Airspeed within ±15 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

COMMENTS

Hours		

PRIVATE PILOT LESSON 13— (DUAL) CROSS-COUNTRY FLIGHT TRAINING

OBJECTIVE: The student will learn cross-country piloting skills. VOR, GPS, pilotage/dead reckoning navigation will be alternated on various legs of the flight.

TIME: 3.0 hours minimum *including 0.5 instrument training.*

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of lesson
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ Collision avoidance
____ ____ ____ CFIT/wire strike avoidance
____ ____ ____ Weather planning
____ ____ ____ TFRs, SUAs
____ ____ ____ Flight planning/filing
____ ____ ____ SRM, ADM
____ ____ ____ Aviation security
____ ____ ____ Runway incursion avoidance
____ ____ ____ LAHSO

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Checklist usage
____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port block-age, carb ice*
____ ____ ____ Electrical malfunctions
____ ____ ____ Emergency descent

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates and documents—ARROW
____ ____ ____ Preflight inspection checklist √
____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, transmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—copy, confirm, comply
____ ____ ____ Positive exchange of control
____ ____ ____ Begin taxi, brake check, steering check

TAXI (cont.)

____ ____ ____ Taxiing, wind, speed, brake hazards
____ ____ ____ Traffic watch/call hold short lines
____ ____ ____ Run up √

TAKEOFF

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind, short, soft*
____ ____ ____ Climbs √—with turns, Cs (Vx, Vy, cruise)
____ ____ ____ Pattern departure

BASIC MANEUVERS (VR and IR)

____ ____ ____ Level-off from climb procedure
____ ____ ____ Cruise √
____ ____ ____ Straight and level
____ ____ ____ Turns to headings
____ ____ ____ Engine check / traffic check

NAVIGATION

____ ____ ____ Open flight plan
____ ____ ____ VOR intercepting, tracking
____ ____ ____ GPS intercepting, tracking
____ ____ ____ Pilotage, dead reckoning
____ ____ ____ Use of magnetic compass
____ ____ ____ Autopilot / flight director
____ ____ ____ Ground speed calculation
____ ____ ____ Navigation log usage
____ ____ ____ Diversion / lost procedures
____ ____ ____ Brief expected taxi route
____ ____ ____ Descents √—*turns, Cs, best glide*
____ ____ ____ Level offs from descent

PRIVATE PILOT LESSON 13

(DUAL) CROSS-COUNTRY FLIGHT TRAINING (CONTINUED)

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Landing—*with a flat tire*

____ ____ ____ Engine failure—takeoff run, after takeoff, inflight

____ ____ ____ Forced landings—power, no power, ditching

____ ____ ____ Emergency descent

LANDING

____ ____ ____ Approach—location, communication

____ ____ ____ Approach—tower, no tower

____ ____ ____ Pattern entry

____ ____ ____ Landing √

____ ____ ____ Traffic pattern

____ ____ ____ Landing clearance

____ ____ ____ Stabilized approach

____ ____ ____ Slips to landing

____ ____ ____ Flaps 0° -10° -20° -30°

____ ____ ____ Go around √

____ ____ ____ Landings—normal, crosswind, short, soft

____ ____ ____ Positive aircraft control

LANDING (Cont.)

____ ____ ____ Roundout—*height, crosswind control*

____ ____ ____ Touchdown—*full stall, drift, centerline*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Shutdown √

____ ____ ____ Close flight plan

____ ____ ____ Debrief

____ ____ ____ Update syllabus and logbook

____ ____ ____ Initial solo cross-country flight endorsement

Flight Leg	Route
Pilotage/DR:	
VOR:	
GPS:	

COMPLETION STANDARDS

This lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±250 feet
2. Headings ±15°
3. Airspeed within ±15 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 14— (DUAL) NIGHT MANEUVERS AND CROSS-COUNTRY NAVIGATION

OBJECTIVE: The student will practice night piloting skills, 10 full stop takeoffs and landings in the pattern, and a dual cross-country flight of more than 100 nautical miles total distance.

TIME: 3.0 hours minimum of night instruction ***including 0.5 hours of instrument training.***

PREFLIGHT BRIEFING/SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of lesson
____ ____ ____ SRM, ADM and risk management
____ ____ ____ Aircraft lighting systems
____ ____ ____ Airport lighting systems
____ ____ ____ Night navigation
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ Collision avoidance
____ ____ ____ Weather planning/TFRs, SUAs
____ ____ ____ Flight planning/filing
____ ____ ____ LAHSO
____ ____ ____ Runway incursion avoidance
____ ____ ____ CFIT/wire strike avoidance
____ ____ ____ Personal equipment
____ ____ ____ Aviation security

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
____ ____ ____ Electrical malfunctions

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates and documents—ARROW
____ ____ ____ Preflight inspection checklist √
____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, transmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Begin taxi—*brake check, steering check*

TAXI (Cont.)

____ ____ ____ Positive exchange of controls
____ ____ ____ Taxi—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / HOLD SHORT lines
____ ____ ____ Runup √

TAKEOFF

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind, short, soft*
____ ____ ____ Climbs √—*with turns, Cs (Vx, Vy, cruise)*
____ ____ ____ Pattern departure

BASIC MANEUVERS (VR and IR)

____ ____ ____ Level-off from climb procedure
____ ____ ____ Cruise √
____ ____ ____ Straight and level
____ ____ ____ Turns to headings
____ ____ ____ Engine check / traffic check

NAVIGATION

____ ____ ____ Open flight plan
____ ____ ____ VOR intercepting, tracking
____ ____ ____ GPS intercepting, tracking
____ ____ ____ Pilotage, dead reckoning
____ ____ ____ Autopilot/flight director
____ ____ ____ Ground speed calculation
____ ____ ____ Navigation log usage
____ ____ ____ Brief expected taxi route
____ ____ ____ Diversion / lost procedures
____ ____ ____ Use of magnetic compass
____ ____ ____ Descents √—*turns, Cs, best glide*
____ ____ ____ Level offs from descent

PRIVATE PILOT LESSON 14
(DUAL) NIGHT MANEUVERS AND CROSS-COUNTRY NAVIGATION
(CONTINUED)

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Landing—*with a flat tire*

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*

____ ____ ____ Forced landings—*power, no power, ditching*

____ ____ ____ Emergency descent

LANDING

____ ____ ____ Approach—*location, communications*

____ ____ ____ Approach—*tower, no tower*

____ ____ ____ Pattern entry

____ ____ ____ Landing √

____ ____ ____ Traffic pattern

____ ____ ____ Landing clearance

____ ____ ____ Stabilized approach

____ ____ ____ Slips to landing

____ ____ ____ Flaps 0° -10° -20° -30°

____ ____ ____ Go around √

LANDING (cont.)

____ ____ ____ Night landings—*normal, crosswind*

____ ____ ____ Roundout—*height, crosswind control*

____ ____ ____ Positive aircraft control

____ ____ ____ Touchdown—*full stall, drift, centerline*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / Update syllabus and logbook

Flight Leg	Route
Pilotage/DR:	
VOR:	
GPS:	
Number of Takeoffs and Landings (10 min): _____	

COMPLETION STANDARDS

This lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±250 feet
2. Headings ±15°
3. Airspeed within ±15 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 15— (DUAL) STAGE TWO CHECK (CROSS-COUNTRY)
OBJECTIVE: The student will demonstrate the ability to plan and fly cross-country flights.
TIME: Approximately 1.0 hour.

PREFLIGHT BRIEFING

____ ____ ____ Cross-country oral

____ ____ ____ ADM and Risk Management

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*

____ ____ ____ Icing—*structural inflight, static port blockage, induction ice*

____ ____ ____ Electrical malfunctions

____ ____ ____ Emergency descent

PREFLIGHT

____ ____ ____ Cockpit √

____ ____ ____ Certificates and documents—ARROW

____ ____ ____ Preflight inspection checklist √

____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √

____ ____ ____ Comm radio setup—*freq, vol, transmitter*

____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Begin taxi—*brake check, steering check*

____ ____ ____ Positive exchange of controls

____ ____ ____ Taxi—*wind, speed, braking, hazards*

____ ____ ____ Traffic watch / HOLD SHORT lines

____ ____ ____ Runup √

TAKEOFF

____ ____ ____ Takeoff

____ ____ ____ Takeoff clearance—*copy, confirm, comply*

____ ____ ____ Takeoff—*normal, crosswind, short, soft*

____ ____ ____ Climbs √—*with turns, Cs (Vx, Vy, cruise)*

____ ____ ____ Pattern departure

BASIC MANEUVERS

____ ____ ____ Level-off from climb

____ ____ ____ Cruise √

____ ____ ____ Engine check / traffic check

NAVIGATION

____ ____ ____ Open flight plan

____ ____ ____ VOR intercepting, tracking

____ ____ ____ GPS intercepting, tracking

____ ____ ____ Pilotage, dead reckoning

____ ____ ____ Ground speed calculation

____ ____ ____ Navigation log usage

____ ____ ____ In-flight radio resources

____ ____ ____ Autopilot/flight director

____ ____ ____ Diversion / lost procedures

____ ____ ____ Use of magnetic compass

____ ____ ____ Descents √—*turns, Cs, hi-lo drag*

____ ____ ____ Brief expected taxi route

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Landing—*with a flat tire*

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*

____ ____ ____ Forced landings—*power, no power, ditching*

____ ____ ____ Emergency descent

PRIVATE PILOT LESSON 15

(DUAL) STAGE TWO CHECK (CROSS-COUNTRY)

(CONTINUED)

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Approach—*tower, no tower*

____ ____ ____ Pattern entry

____ ____ ____ Landing √

____ ____ ____ Traffic pattern

____ ____ ____ Landing clearance

____ ____ ____ Stabilized approach

____ ____ ____ Slips to landing

____ ____ ____ Landing flaps (select one: 0° -10° -20°)

____ ____ ____ Go around √

____ ____ ____ Landings—*normal, crosswind, short soft*

____ ____ ____ Roundout—*height, crosswind control*

____ ____ ____ Positive aircraft control

____ ____ ____ Touchdown—*full stall, drift, centerline*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / Update syllabus and log-book

Flight Leg	Route
Pilotage/DR:	
VOR:	
GPS:	

COMPLETION STANDARDS

This lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±200 feet
2. Headings ±10°
3. Airspeed within ±10 knots

Instructor _____ Student _____ Date _____ Acft Type _____ N# _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											
		(±19)	(3.0)	(5.0)	(2.0)	(1.7)	(0)	(±2.5)	(0)	(±24.5)	(3.7)

PRIVATE PILOT LESSON 15

STAGE TWO CROSS-COUNTRY CHECK

COMMENTS

RECOMMENDATIONS

1 ❑ This stage check performance indicates that additional review is necessary.

A. Do Review Lessons on all items marked "1" until your Instructor indicates a satisfactory "2".

B. Insert the Review Lesson sheets following this page.

C. Return to a check instructor.

Check Instructor _____ Student _____ Date _____

2 ❑ This stage check was performed in a satisfactory manner. Move on to the next stage.

Check Instructor _____ Student _____ Date _____

PRIVATE PILOT CERTIFICATION
Training Course Outline

STAGE THREE

Lessons 16 - 23

4.0 hours (approx) of dual flight training of which (approx) 1.0 hours of instrument flight training

3.0 hours flight training in preparation for the practical test must be within 60 days preceding the date of the test.

4.0 hours (approx) of solo flight training

Three (3) takeoffs and landings to a full stop with each landing involving a flight in the traffic pattern at an airport with an operating control tower.

0.8 hours (approx) of AATD training

Instrument training in a training device

Stage Three Objectives

Students will review all aspects of their flight training.

Stage Three Completion Standards

This stage will be complete when the student has satisfactorily completed an End-of-Course evaluation to Private Pilot Airman Certification Standards.

Hours		

PRIVATE PILOT LESSON 16— (SOLO) FIRST CROSS-COUNTRY SOLO FLIGHT

OBJECTIVE: The student will plan and fly a daytime cross-country flight of at least 100 nm, with landings at a minimum of 3 points, one segment of the flight consisting of a straight-line distance of at least 50 nm between the takeoff and landing locations.

TIME: *Minimum 2.0 hours.*

PREFLIGHT BRIEFING - DUAL

___ ___ ___ Discussion of this lesson

___ ___ ___ SRM, ADM and risk management

___ ___ ___ Wake turbulence/wind shear

___ ___ ___ Collision avoidance

___ ___ ___ Runway incursion avoidance

___ ___ ___ Weather planning

___ ___ ___ TFRs and SUAs

___ ___ ___ Flight planning

___ ___ ___ LAHSO

___ ___ ___ Review of all emergency checklists

___ ___ ___ CFIT/wire strike avoidance

___ ___ ___ Diversion / lost procedures

___ ___ ___ Checklist usage

___ ___ ___ Check endorsements

EMERGENCY PROCEDURES √ *(Oral review)*

___ ___ ___ Landing—*with a flat tire*

___ ___ ___ Engine failure—*takeoff run, after takeoff, inflight*

___ ___ ___ Forced landings—*power, no power, ditching*

___ ___ ___ Emergency descent

PREFLIGHT

___ ___ ___ Cockpit √

___ ___ ___ Certificates and documents—ARROW

___ ___ ___ Preflight inspection √

___ ___ ___ Airplane servicing

STARTUP

___ ___ ___ Engine start

___ ___ ___ Comm radio setup—*freq, vol, transmitter*

___ ___ ___ Nav radio setup—*freq, ID, set course*

TAXI

___ ___ ___ Taxi √ / taxi brief

___ ___ ___ Taxi clearance—*copy, confirm, comply*

___ ___ ___ Begin taxi—*brake check, steering check*

___ ___ ___ Taxi—*wind, speed, braking, hazards*

___ ___ ___ Traffic watch / HOLD SHORT lines

___ ___ ___ Runup √

TAKEOFF

___ ___ ___ Takeoff √

___ ___ ___ Takeoff clearance—*copy, confirm, comply*

___ ___ ___ Takeoff—*normal, crosswind*

___ ___ ___ Climbs √—*with turns, Cs (Vx, Vy, cruise)*

___ ___ ___ Pattern departure

BASIC MANEUVERS

___ ___ ___ Level-off from climb

___ ___ ___ Cruise √

___ ___ ___ Engine check / traffic check

NAVIGATION

___ ___ ___ Open flight plan

___ ___ ___ Course intercepting, tracking

___ ___ ___ Pilotage, dead reckoning, radio

___ ___ ___ Ground speed calculation

___ ___ ___ Navigation log usage

___ ___ ___ In-flight radio resources

___ ___ ___ Brief expected taxi route

___ ___ ___ Descents √

PRIVATE PILOT LESSON 16

(SOLO) FIRST CROSS-COUNTRY SOLO FLIGHT

(CONTINUED)

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Approach—*tower, no tower*

____ ____ ____ Pattern entry—45°

____ ____ ____ Landing √

____ ____ ____ Traffic pattern

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Stabilized approach

____ ____ ____ Slips to landing

____ ____ ____ Flaps 0° -10° or -20°

____ ____ ____ Landings—*normal, crosswind*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Dual debrief / Update syllabus and logbook

RELEASED FOR SOLO

Date _____ Instructor _____

Flight Route

COMPLETION STANDARDS

This lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±200 feet
2. Headings ±10°
3. Airspeed within ±10 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 17— (DUAL) REVIEW OF MANEUVERS AND NAVIGATION
OBJECTIVE: Instructor and student will review all areas of flight training listed below.
TIME: Approx 2.0 hours of flight instruction, including (approx) **0.5 hours of instrument**.

PREFLIGHT BRIEFING /SPECIAL EMPHASIS AREAS

____ ____ ____ Discussion of lesson
____ ____ ____ SRM, ADM and risk management
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ CFIT/wire strike avoidance
____ ____ ____ Collision avoidance
____ ____ ____ Stall/Spin awareness
____ ____ ____ Positive aircraft control
____ ____ ____ RUNWAY INCURSION avoidance
____ ____ ____ LAHSO

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Landing—*with a flat tire*
____ ____ ____ Checklist usage
____ ____ ____ Fire—*startup, engine or electrical in-flight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
____ ____ ____ Electrical malfunctions
____ ____ ____ Emergency descent

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates and documents—ARROW
____ ____ ____ Preflight inspection √
____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, transmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Begin taxi—*brake check, steering check*
____ ____ ____ Positive exchange of controls
____ ____ ____ Taxiing—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / Call HOLD SHORT lines
____ ____ ____ Runup √

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind, short, soft*
____ ____ ____ Climbs √ - *with turns, Cs (Vx, Vy, cruise), VR-IR*
____ ____ ____ Traffic pattern departure
____ ____ ____ Level-off from climb—*VR-IR*
____ ____ ____ Cruise √—*VR-IR*
____ ____ ____ *Engine checks, traffic checks*

NAVIGATION

____ ____ ____ Opening flight plan
____ ____ ____ VOR intercepting, tracking
____ ____ ____ GPS intercepting, tracking
____ ____ ____ Pilotage, dead reckoning
____ ____ ____ Diversion / use of compass

PRIVATE PILOT LESSON 17

(DUAL) REVIEW OF MANEUVERS AND NAVIGATION

(CONTINUED)

ADVANCED MANEUVERS

____ ____ ____ PMC, emerg landing area, clearing turns

____ ____ ____ Slow flight—P-factor, torque

____ ____ ____ Stalls—*power-off, power-on*

____ ____ ____ Steep turns—45°

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Landing—*with a flat tire*

____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*

____ ____ ____ Forced landings—*power, no power, ditching*

____ ____ ____ Emergency descent

GROUND REFERENCE

____ ____ ____ Clearing turns, emerg landing area, PMC

____ ____ ____ Rectangular patterns

____ ____ ____ Turns around a point

____ ____ ____ S-Turns

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Pattern entry

____ ____ ____ Landing √

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Traffic pattern

____ ____ ____ Slips to landing

____ ____ ____ Flaps 0° -10° -20° -30°

____ ____ ____ Stabilized approach

____ ____ ____ Go around √

____ ____ ____ Landings—*normal, crosswind, short soft*

____ ____ ____ Roundout—*height, crosswind control*

____ ____ ____ Touchdown—*full stall, drift, centerline*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Debrief / Update syllabus and logbook

COMPLETION STANDARDS

This lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±200 feet
2. Headings ±10°
3. Airspeed within ±10 knots

Instructor _____ Student _____ Date _____ Acft Type _____ N# _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 18— (SOLO) STUDENT REVIEW OF MANEUVERS
OBJECTIVE: The student will practice piloting skills for tasks assigned by the instructor.
TIME: Approx 2.0 hours of solo flight practice.

PREFLIGHT BRIEFING - DUAL

____ ____ ____ Discussion of this lesson
____ ____ ____ Review of all emergency checklists
____ ____ ____ Endorsements
____ ____ ____ SPECIAL EMPHASIS AREAS

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates and documents—ARROW
____ ____ ____ Preflight inspection √
____ ____ ____ Airplane servicing

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, transmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Begin taxi—*brake check, steering check*
____ ____ ____ Taxiing—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / Call HOLD SHORT lines
____ ____ ____ Runup √

TAKEOFF

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind, short, soft*
____ ____ ____ Climbs √ - *with turns, Cs (Vx, Vy, cruise)*
____ ____ ____ Pattern departure

BASIC MANEUVERS

____ ____ ____ Level-off from climb
____ ____ ____ Cruise √
____ ____ ____ Straight and level
____ ____ ____ Level turns to headings
____ ____ ____ Tracking a straight line—*wind Cx*
____ ____ ____ Engine check / traffic check
____ ____ ____ Descents √—with turns, Cs, best glide
____ ____ ____ Level-offs from descents

GROUND REFERENCE

____ ____ ____ Clearing turns, emerg landing area
____ ____ ____ Rectangular patterns
____ ____ ____ Turns around a point
____ ____ ____ S-turns

ADVANCED MANEUVERS

____ ____ ____ PMC, emerg landing area, clearing turns
____ ____ ____ Slow flight—P-factor, torque
____ ____ ____ Stalls—*power-off, power-on*
____ ____ ____ Steep turns—45°

PRIVATE PILOT LESSON 18
(SOLO) STUDENT REVIEW OF MANEUVERS
(CONTINUED)

LANDING

____ ____ ____ Approach—*location, communication*

____ ____ ____ Pattern entry

____ ____ ____ Landing √

____ ____ ____ Landing clearance—*copy, confirm, comply*

____ ____ ____ Traffic pattern

____ ____ ____ Slips to landing

____ ____ ____ Flaps 0° -10° -20° -30°

____ ____ ____ Stabilized approach

____ ____ ____ Landings—*normal, crosswind, short soft*

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Runway incursion avoidance

____ ____ ____ Taxi √—*wind, speed, braking, hazards*

____ ____ ____ Shutdown √

POSTFLIGHT

____ ____ ____ Postflight inspection of aircraft

____ ____ ____ Dual debrief / Update syllabus and logbook

RELEASED FOR SOLO

Date _____ Instructor _____

Date _____ Instructor _____

Date _____ Instructor _____

COMPLETION STANDARDS

This lesson will be complete when the student has practiced all the noted maneuvers.

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

Hours		

PRIVATE PILOT LESSON 19—(AATD OR ACFT) REVIEW OF INSTRUMENT FLIGHT
OBJECTIVE: Instructor and student will review the areas of flight training noted below.
TIME: Approx **0.8 hour of instrument**.

PREFLIGHT BRIEFING

____ ____ ____ Discussion of lesson

PREFLIGHT

____ ____ ____ Cockpit √

____ ____ ____ Certificates and documents—*ARROW*

STARTUP

____ ____ ____ Engine start √

____ ____ ____ Comm radio setup—*freq, vol, transmitter*

____ ____ ____ Nav radio setup—*freq, ID, set course*

TAXI

____ ____ ____ Taxi √

____ ____ ____ Taxi clearance—*copy, confirm, comply*

____ ____ ____ Begin taxi—*brake check, steering check*

____ ____ ____ Taxi—wind speed, braking, hazards

____ ____ ____ Traffic watch / Call HOLD SHORT lines

____ ____ ____ Runup √

TAKEOFF

____ ____ ____ Takeoff √

____ ____ ____ Takeoff clearance—*copy, confirm, comply*

____ ____ ____ Takeoffs

BASIC INSTRUMENT FLIGHT

____ ____ ____ Scanning

____ ____ ____ Climbs √—*with turns, Cs (Vy, cruise)*

____ ____ ____ Climbs—*with turns, Cs (Vy, cruise)*

____ ____ ____ Level-off from climb

____ ____ ____ Cruise √

____ ____ ____ Straight and level

____ ____ ____ Level turns to headings

____ ____ ____ Magnetic compass turns

____ ____ ____ Engine checks

____ ____ ____ Recovery from unusual attitudes

NAVIGATION

____ ____ ____ VOR/HSI—frequencies, ID, set OBS

____ ____ ____ VOR/HSI—course intercepting

____ ____ ____ VOR/HSI—course tracking

____ ____ ____ VOR/HSI—position locating

____ ____ ____ GPS—entering DIRECT TO identifiers

____ ____ ____ GPS—using the map page

____ ____ ____ GPS—using the NEAREST feature

____ ____ ____ GPS—using other navigation pages

DESCENT

____ ____ ____ Descent √

____ ____ ____ Descents—*with turns, Cs*

____ ____ ____ Level-off from descent

POSTFLIGHT

____ ____ ____ Shutdown √

____ ____ ____ Debrief

____ ____ ____ Update syllabus and logbook

PRIVATE PILOT LESSON 19

(AATD OR ACFT) REVIEW OF INSTRUMENT FLIGHT

(CONTINUED)

COMPLETION STANDARDS

This lesson will be complete when all areas have a grade of 2 or better. Standards are as follows:

1. Altitude ±200 feet
2. Headings ±10°
3. Airspeed within ±10 knots

Instructor	Student	Date	Acft Type	N#

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											

COMMENTS

Hours		

PRIVATE PILOT LESSON 20— (BRIEFING) PRE-EVALUATION ORAL
OBJECTIVE: The student will demonstrate the knowledge necessary to act as Private Pilot.
TIME: As required.

CERTIFICATES—STUDENT

____ ____ ____ Syllabus correct
____ ____ ____ Verification of Student Certificate
____ ____ ____ Verification of Medical Certificate
____ ____ ____ Completing 8710 Form/ IACRA
____ ____ ____ Endorsements

PILOT QUALIFICATIONS

____ ____ ____ Currency, Privileges, Limitations
____ ____ ____ Documents & ID Requirements
____ ____ ____ Logbook/Record Keeping
____ ____ ____ Compensation
____ ____ ____ Medical Certificates
____ ____ ____ Drugs and Alcohol/IMSAFE
____ ____ ____ Risk Elements

AIRWORTHINESS REQUIREMENTS

____ ____ ____ Certificates
____ ____ ____ Inspections
____ ____ ____ Preventative Maintenance
____ ____ ____ Required Equipment
____ ____ ____ Inoperative Equipment
____ ____ ____ Special Flight Permit
____ ____ ____ Risk Elements

WEATHER INFORMATION

Adverse Conditions:

____ ____ ____ TFRs
____ ____ ____ Closed/Unsafe NOTAMs
____ ____ ____ WST/WS/WA/UUA/CWA

Current Weather:

____ ____ ____ METARs/UAs
____ ____ ____ Wx Depiction/Surf. Analysis Chart
____ ____ ____ Radar & Radar Summary Chart

Forecasts:

____ ____ ____ TAF/FD
____ ____ ____ Surface/SIGWX Prog. Charts

Forecasts: (continued)

____ ____ ____ Convective Outlook
____ ____ ____ Freezing Level/Icing Prob. & Sev.

General:

____ ____ ____ En Route Weather/Wx Sources
____ ____ ____ NOTAMs (D and FDC)
____ ____ ____ Meteorology (i.e. Wx Theory)
____ ____ ____ Risk Elements

CROSS-COUNTRY FLIGHT PLANNING

____ ____ ____ Route Planning & Checkpoints
____ ____ ____ Applying UTC and Time Zones
____ ____ ____ Pilotage and Dead Reckoning
____ ____ ____ Time, Speed, and Distance
____ ____ ____ True Airspeed & Density Altitude
____ ____ ____ Planned vs. Actual Calculations
____ ____ ____ Magnetic Compass Errors
____ ____ ____ Power Setting Selection
____ ____ ____ Terms: MC, TC, TH, MH, CH
____ ____ ____ Fuel Planning
____ ____ ____ Altitudes and Obstacles
____ ____ ____ Sectional and Symbology
____ ____ ____ Activating/Closing Flight Plans
____ ____ ____ Ground-based Navigation
____ ____ ____ GPS, RAIM, WAAS
____ ____ ____ Radar Services/Assistance
____ ____ ____ Diversion and Lost Procedures
____ ____ ____ Risk Elements

NATIONAL AIRSPACE SYSTEM

____ ____ ____ Types of Airspace and Classes
____ ____ ____ Requirements and Restrictions
____ ____ ____ SUA, SFRA, and Other Airspace
____ ____ ____ Airspeed Limitations
____ ____ ____ Risk Elements

PRIVATE PILOT LESSON 20

(BRIEFING) PRE-EVALUATION ORAL

(CONTINUED)

PERFORMANCE AND LIMITATIONS

____ ____ ____ Charts, Tables, and Data

____ ____ ____ Factors Affecting Performance

____ ____ ____ Loading on Performance

____ ____ ____ Weight and Balance

____ ____ ____ Aerodynamics

____ ____ ____ Risk Elements

OPERATION OF SYSTEMS

____ ____ ____ Primary Flight Controls and Trim

____ ____ ____ Flaps, Leading Edge Devices, and Spoilers

____ ____ ____ Powerplant and Propeller

____ ____ ____ Landing Gear

____ ____ ____ Fuel, Oil, and Hydraulic

____ ____ ____ Electrical

____ ____ ____ Avionics

____ ____ ____ Pitot-Static, Vacuum/Pressure & Associated Flight Instruments

____ ____ ____ Environmental

____ ____ ____ Deicing and Anti-Icing

____ ____ ____ Normal Operation

____ ____ ____ Common Errors

____ ____ ____ Abnormal Operation

____ ____ ____ Automated Systems

____ ____ ____ Risk Elements

HUMAN FACTORS

____ ____ ____ Hypoxia

____ ____ ____ Hyperventilation

____ ____ ____ Middle Ear and Sinus Problems

____ ____ ____ Spatial Disorientation

____ ____ ____ Motion Sickness

____ ____ ____ Carbon Monoxide Poisoning

____ ____ ____ Stress and Fatigue

____ ____ ____ Dehydration and Nutrition

HUMAN FACTORS (continued)

____ ____ ____ Hypothermia

____ ____ ____ Optical Illusions

____ ____ ____ Alcohol, Drugs, OTC Meds

____ ____ ____ Nitrogen/Scuba Diving

____ ____ ____ ADM & Hazardous Attitudes

____ ____ ____ Collision Avoidance

____ ____ ____ Risk Elements

COMMUNICATIONS AND LIGHT GUN SIGNALS

____ ____ ____ Obtaining Frequencies

____ ____ ____ Communication Procedures and Phraseology

____ ____ ____ Transponders

____ ____ ____ Radar Assistance

____ ____ ____ Lost Communication Procedures

____ ____ ____ Automated WX and Airport Info

____ ____ ____ Risk Elements

TRAFFIC PATTERNS

____ ____ ____ Towered/Non-towered Operations

____ ____ ____ Runway Selection

____ ____ ____ Right-of-Way Rules

____ ____ ____ Wake Turbulence

____ ____ ____ Runway Incursion Avoidance

____ ____ ____ Parachuting Operations

____ ____ ____ Different Types of Aircraft

____ ____ ____ Risk Elements

NIGHT PREPARATION

____ ____ ____ Physiology, Equipment

____ ____ ____ Airport Lighting Systems

____ ____ ____ Airplane Lighting Systems

____ ____ ____ Orientation, Nav, & Chart Reading

____ ____ ____ Somatogravic/Black Hole Approach Illusion

____ ____ ____ Visual Scanning

____ ____ ____ Inadvertent IMC

____ ____ ____ Risk Elements

PRIVATE PILOT LESSON 20

(BRIEFING) PRE-EVALUATION ORAL

(CONTINUED)

EMERGENCY OPERATIONS

____	____	____	Emergency Descent
____	____	____	Glide Speed vs. Distance
____	____	____	Stabilized Approach
____	____	____	Energy Management
____	____	____	Wind and Effects
____	____	____	Load Factors
____	____	____	Emergency Procedures
____	____	____	Communications
____	____	____	ATC Deviations
____	____	____	ELTs: Operation/Limitations/ Tests
____	____	____	Radar Assistance/Transponders
____	____	____	Minimum Fuel
____	____	____	Emergency Equipment
____	____	____	Climate Extremes (Hot/Cold)
____	____	____	Mountainous Terrain
____	____	____	Overwater Operations
____	____	____	Gear and Physical Needs
____	____	____	Supplemental Oxygen
____	____	____	High Drag Vs. Low Drag

System and Equipment Malfunction:

____	____	____	Partial or Complete Power Loss
____	____	____	Engine Roughness or Overheat
____	____	____	Carburetor or Induction Icing
____	____	____	Loss of Oil Pressure
____	____	____	Fuel Starvation
____	____	____	Electrical Malfunction
____	____	____	Vacuum/Pressure and Associated Flight Instruments Malfunction
____	____	____	Pitot/Static System Malfunction
____	____	____	Landing Gear or Flap Malfunction
____	____	____	Inoperative Trim
____	____	____	Inadvertent Door or Window Opening
____	____	____	Structural Icing
____	____	____	Smoke/Fire/Engine Compartment Fire
____	____	____	Glass Cockpit Operations
____	____	____	Any Other Emergency Appropriate to the Airplane
____	____	____	Risk Elements for all Emergency Operations

COMPLETION STANDARDS

The student must demonstrate sufficient knowledge in the lesson areas to rate at least a 3 on each item.

Instructor	Student	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Hours		

PRIVATE PILOT LESSON 21— (DUAL) FINAL REVIEW LESSON

OBJECTIVE: Instructor and student will review the areas of flight training noted below.

TIME: Approx 2.0 hours of flight instruction and (approx) ***0.5 hours of instrument instruction.***

PREFLIGHT BRIEFING

____ ____ ____ Discussion of lesson
____ ____ ____ Aircraft lighting systems
____ ____ ____ Airport lighting systems
____ ____ ____ Night navigation
____ ____ ____ Wake turbulence / wind shear
____ ____ ____ Collision avoidance
____ ____ ____ Weather planning
____ ____ ____ Flight planning/filing

EMERGENCY PROCEDURES √ *(Oral review)*

____ ____ ____ Fire—*startup, engine or electrical inflight, cabin, wing*
____ ____ ____ Icing—*structural inflight, static port blockage, carb ice*
____ ____ ____ Systems and equipment malfunctions

PREFLIGHT

____ ____ ____ Cockpit √
____ ____ ____ Certificates and documents—ARROW
____ ____ ____ Preflight inspection checklist √
____ ____ ____ Airplane servicing
____ ____ ____ Risk Elements

STARTUP

____ ____ ____ Engine start √
____ ____ ____ Comm radio setup—*freq, vol, transmitter*
____ ____ ____ Nav radio setup—*freq, ID, set course*
____ ____ ____ Risk Elements

TAXI

____ ____ ____ Taxi √ / taxi brief
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Begin taxi—*brake check, steering check*
____ ____ ____ Positive exchange of controls
____ ____ ____ Taxi—*wind, speed, braking, hazards*
____ ____ ____ Traffic watch / HOLD SHORT lines
____ ____ ____ Runup √
____ ____ ____ Risk Elements

TAKEOFF / CLIMB / CRUISE

____ ____ ____ Takeoff √
____ ____ ____ Takeoff clearance—*copy, confirm, comply*
____ ____ ____ Takeoff—*normal, crosswind, short, soft, aborted*
____ ____ ____ Climbs √—*with turns, Cs (Vx, Vy, cruise)*
____ ____ ____ Traffic pattern departure
____ ____ ____ Level-off from climb
____ ____ ____ Cruise √
____ ____ ____ Risk Elements

BASIC INSTRUMENT

____ ____ ____ Straight and level—*inst*
____ ____ ____ Level turns to headings—*inst*
____ ____ ____ Climbs with turns—*inst*
____ ____ ____ Descents with turns—*inst*
____ ____ ____ Level-offs from climbs and descents—*inst*
____ ____ ____ Magnetic compass turns-*inst*
____ ____ ____ Unusual attitudes—*inst*
____ ____ ____ Radio Communications, Navigation Systems/Facilities, and Radar Services
____ ____ ____ Risk Elements

NAVIGATION

____ ____ ____ Open flight plan—*simulated*
____ ____ ____ VOR intercepting, tracking
____ ____ ____ GPS intercepting, tracking
____ ____ ____ Pilotage, dead reckoning
____ ____ ____ Autopilot/flight director
____ ____ ____ Diversion
____ ____ ____ Risk Elements

PRIVATE PILOT LESSON 21
(DUAL) FINAL REVIEW LESSON
(CONTINUED)

PERFORMANCE MANEUVERS

____ ____ ____ PMC, emerg landing area, clearing turns
____ ____ ____ Rectangular patterns
____ ____ ____ Turns around a point
____ ____ ____ S-turns
____ ____ ____ Slow flight—P-factor, torque
____ ____ ____ Stalls—*power-off, power-on*
____ ____ ____ Steep turns—45°
____ ____ ____ Risk Elements

EMERGENCY PROCEDURES √ *(Practical review)*

____ ____ ____ Emergency descent
____ ____ ____ Engine failure—*takeoff run, after takeoff, inflight*
____ ____ ____ Forced landings—*power, no power, ditching*
____ ____ ____ Systems and equipment malfunctions
____ ____ ____ Risk Elements

LANDING

____ ____ ____ Approach—*location, communication*
____ ____ ____ Pattern entry
____ ____ ____ Landing √
____ ____ ____ Landing clearance—*copy, confirm, comply*
____ ____ ____ Traffic pattern
____ ____ ____ Slips to landing (+400/-0)
____ ____ ____ Flaps 0° -10° -20° -30°
____ ____ ____ Stabilized approach
____ ____ ____ Normal/X-Wind Landing (+400/-0)
____ ____ ____ Short-Field Landing (+200/-0)
____ ____ ____ Soft-Field Landing
____ ____ ____ Taxi clearance—*copy, confirm, comply*
____ ____ ____ Runway incursion avoidance
____ ____ ____ Taxi √—*wind, speed, braking, hazards*
____ ____ ____ Shutdown √
____ ____ ____ Risk Elements

POSTFLIGHT

____ ____ ____ Postflight inspection / close flight plan—simulated
____ ____ ____ Debrief / update syllabus and logbook
____ ____ ____ Risk Elements

COMPLETION STANDARDS

This lesson will be complete when all areas have met the Airman Certification Standards and have a grade of 3.

Instructor _____ Student _____ Date _____ Acft Type _____ N# _____

_____ _____ _____ _____ _____

	Dual Pre/Post	Dual Day	Dual Night	Dual X-Ctry	Dual Inst	Dual AATD	Dual Test Prep	Solo Day	Solo X-Ctry	Total Acft	Inst/AATD
Previous											
This Lesson											
Total											
		(23)	(3.0)	(5.0)	(3.0)	(2.5)	(3.0)	(6.5)	(2.0)	(32.5)	(5.5)

PRIVATE PILOT END-OF-COURSE EVALUATION
OBJECTIVE: The applicant will display the knowledge, skills and risk management elements to become a Private Pilot.
TIME: As required for thorough evaluation.

Student _____ Examiner _____ Date _____

Note: The evaluator must assess the applicant on all skill elements for each task included in each area of operation of the ACS unless otherwise noted. The evaluator must also assess at least one knowledge element and one risk management element in each task, focusing on any task element (s) the applicant missed on the knowledge exam.

EVALUATION PRELIMINARIES

____	____	____	Drivers license—*picture ID*
____	____	____	Student Certificate—*current*
____	____	____	Medical certificate—*current*
____	____	____	8710 Form—*correct, dated, signed*
____	____	____	Knowledge test report—*current*
____	____	____	Certificate of Enrollment—*current*
____	____	____	Training Course Outline—*completed*
____	____	____	Ground school completion—verified

I. PREFLIGHT PREPARATION

____	____	____	Pilot qualifications
____	____	____	Airworthiness requirements
____	____	____	Weather information
____	____	____	Cross-Country flight planning
____	____	____	National Airspace System
____	____	____	Performance and limitations
____	____	____	Operation of systems
____	____	____	Human factors

II. PREFLIGHT PROCEDURES

____	____	____	Preflight assessment
____	____	____	Flight deck management
____	____	____	Engine starting
____	____	____	Taxiing
____	____	____	Before takeoff check

III. AIRPORT OPERATIONS

____	____	____	Communication and light gun signals, runway lighting
____	____	____	Traffic patterns

IV. TAKEOFFS, LANDINGS, GO-AROUNDS

____	____	____	Normal, crosswind takeoff and climb
____	____	____	Normal and crosswind approach and landing
____	____	____	Soft-field takeoff and climb
____	____	____	Soft-field approach and landing
____	____	____	Short-field takeoff and maximum performance climb
____	____	____	Short-field approach and landing
____	____	____	Forward slip to landing
____	____	____	Go-around/Rejected landing

PRIVATE PILOT END-OF-COURSE EVALUATION
(CONTINUED)

V. PERFORMANCE & GROUND REFERENCE MANEUVERS

____ ____ ____ Steep turns

____ ____ ____ Ground reference maneuvers

VI. NAVIGATION

____ ____ ____ Pilotage and dead reckoning

____ ____ ____ Navigation systems and radar services

____ ____ ____ Diversion

____ ____ ____ Lost procedures

VII. SLOW FLIGHT AND STALLS

____ ____ ____ Slow flight

____ ____ ____ Power-off stalls

____ ____ ____ Power-on stalls

____ ____ ____ Spin awareness

VIII. BASIC INSTRUMENT MANEUVERS

____ ____ ____ Straight and level

____ ____ ____ Constant airspeed climbs

____ ____ ____ Constant airspeed descents

____ ____ ____ Turns to headings

____ ____ ____ Recovery from unusual attitudes

____ ____ ____ Radio communications, Nav systems, Facilities and Radar services

PRIVATE PILOT END-OF-COURSE EVALUATION
(CONTINUED)

IX. EMERGENCY OPERATIONS

____ ____ ____ Emergency descents

____ ____ ____ Emergency approach and landing

____ ____ ____ Emergency equip and survival gear

____ ____ ____ Systems and equipment malfunctions

Systems and Equipment Malfunction: Select 3 Skills

____ ____ ____ Partial or Complete Power Loss

____ ____ ____ Engine Roughness or Overheat

____ ____ ____ Carburetor or Induction Icing

____ ____ ____ Loss of Oil Pressure

____ ____ ____ Fuel Starvation

____ ____ ____ Electrical Malfunction

____ ____ ____ Vacuum/Pressure and Associated Flight Instruments Malfunction

____ ____ ____ Pitot/Static System Malfunction

____ ____ ____ Landing Gear or Flap Malfunction

____ ____ ____ Inoperative Trim

____ ____ ____ Inadvertent Door or Window Opening

____ ____ ____ Structural Icing

____ ____ ____ Smoke/Fire/Engine Compartment Fire

____ ____ ____ Electronic flight deck display malfunction

____ ____ ____ Any Other Emergency Appropriate to the Airplane

XI. NIGHT OPERATIONS

____ ____ ____ Night preparation

XII. POSTFLIGHT PROCEDURES

____ ____ ____ Parking and Securing

COMPLETION STANDARDS

A student pilot must meet the FAA Private Pilot Airman Certification Standards on this evaluation before being awarded a Private Pilot Certificate.

ATTEMPT 1

Examiner _____

Student _____

Date _____

Oral Time _____

Flight Time _____

ATTEMPT 2

Examiner _____

Student _____

Date _____

Oral Time _____

Flight Time _____

ATTEMPT 3

Examiner _____

Student _____

Date _____

Oral Time _____

Flight Time _____

TOTAL ORAL TEST TIME ____

TOTAL FLIGHT TEST TIME ____

AIRCRAFT N # ____

PRIVATE PILOT END-OF-COURSE EVALUATION

CRITIQUE

COMMENTS

1 ☐ This End-of-Course Evaluation performance indicates that additional review is necessary.

A. Do Review Lessons on all items marked "1" until your Instructor indicates a satisfactory "3".

B. Insert the Review Lesson sheets following this page.

C. Return to a check instructor.

Chief / Asst Chief Instructor _____ **Student** _____ **Date** _____

2 ☐ This End-of-Course evaluation was performed in a satisfactory manner.

Chief / Asst Chief Instructor _____ **Student** _____ **Date** _____

MEMORANDUM

Date:

To: Chief Flight Instructor; University of Dubuque
Chief Ground Instructor; University of Dubuque

From: Part 141 – Private Pilot Ground Instructor

RE: Private Pilot Ground School Completion

The following students have successfully completed all the requirements for the Private Pilot Ground School Course as detailed in the Private Pilot TCO pursuant to Part 141, Appendix B. This ground school included three stage exams as well as an end-of-course exam, with scores of 80 percent or greater. All exams are then corrected to 100 percent:

NAME	DOB MM/DD/YYYY	NAME	DOB MM/DD/YYYY

Respectfully,

[Title],
University of Dubuque Aviation Department

PRIVATE PILOT CERTIFICATION
Ground Training Course

Hours

Stage 1—approx 12 hours of ground training
Stage 2—approx 12 hours of ground training
Stage 3—approx 12 hours of ground training
Students will receive a minimum of 36 hours of ground training.

Objective

The objective of the ground training course is to provide students with the necessary aeronautical knowledge required to meet the prerequisites specified in 14 CFR 61 and 141 for the FAA Private Pilot Knowledge Examination.

Completion Standards

Students will meet the ground training course completion standards by demonstrating through a combination of oral tests, written tests, and school records, that they meet the prerequisites specified in 14 CFR 61 and 141. A passing grade of 80% on all stage exams and an end-of-course exam will be required.

PRIVATE PILOT CERTIFICATION
Ground Training Course

STAGE 1

12 hours approx of ground training

Lessons 1-6

Objectives

The student will be introduced to pilot training, human factors in aviation, aerodynamic principles, and the flight environment. The student will also obtain a basic knowledge of safety of flight, airports, aeronautical charts, airspace, radio communications, and air traffic control services, including the use of radar. The student will learn radio procedures and the common sources of flight information.

Stage Completion Standards

This stage is complete when the student has completed the stage written examination with a minimum score of 80%. The instructor will review each incorrect response with the student to ensure understanding before the student progresses to the next stage.

LESSON 1

TIME APPROXIMATELY 2 HOURS

OBJECTIVES

- Become familiar with pilot training and human factors in aviation.
- Understand the school's pilot training program.

PILOT TRAINING

— How to Get Started
— Role of the FAA
— Fixed-Base Operators
— Eligibility Requirements
— Types of Training Available
— Phases of Training
— Private Pilot Privileges

HUMAN FACTORS

— Aeronautical Decision Making
— Crew Resource Management/SRM Training
— Pilot-In-Command Responsibility
— Communication
— Resource Use
— Workload Management
— Situational Aviation
— Aviation Physiology
— Alcohol, Drugs, and Performance
— Fitness For Fight

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 2

TIME APPROXIMATELY 2 HOURS

OBJECTIVES

- Understand airplane components and systems.
- Understand instrument functions and operating characteristics, including errors and common malfunctions.
- Understand powerplant and related systems.

AIRPLANES

— Fuselage
— Wings
— Empennage
— Landing Gear
— Engine / Propeller
— Pilot's Operating Handbook (POH)

POWERPLANT AND RELATED SYSTEMS

— Reciprocating Engine
— Induction Systems
— Supercharging and Turbocharging
— Ignition Systems
— Fuel Systems
— Refueling
— Oil Systems
— Cooling Systems
— Exhaust Systems
— Propellers
— Propeller Hazards
— Electrical Systems

FLIGHT INSTRUMENTS

— Piot-Static Instruments
— Gyroscopic Instruments
— Magnetic Compass

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 3

TIME APPROXIMATELY 2 HOURS

OBJECTIVES

- Understand the four forces of flight, aerodynamics, principles of stability, maneuvering flight, and load factor.
- Understand stall/spin characteristics as they relate to training airplanes.
- Understand the importance of prompt recognition of stall indications.

FOUR FORCES OF FLIGHT

— Lift
— Weight
— Thrust
— Drag
— Ground Effect
— Airfoils
— Control of Lift

STABILITY

— Three Axes of Flight
— Longitudinal Stability
— Center of Gravity Position
— Lateral Stability
— Directional Stability
— Stalls
— Spins
— Spin Recoveries

AERODYNAMICS OF MANEUVERING FLIGHT

— Climbing Flight
— Turning Tendencies
— Descending Flight
— Turning Flight
— Load Factor

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 4

TIME APPROXIMATELY 3 HOURS

OBJECTIVES

- Understand important safety considerations, including collision avoidance precautions, right-of-way rules, and minimum safety altitudes.
- Understand airport markings and lightings, aeronautical charts, and types of airspace.
- Understand collision avoidance procedures and runway incursion avoidance.

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

SAFTEY OF FLIGHT

— Collision Avoidance / Visual Scanning
— Airport Operations
— Right-of-Way Rules
— Minimum Safety Altitudes
— Taxiing in Wind
— Positive Exchange of Flight Controls

AIRPORT

— Controlled and Uncontrolled
— Runway Layout
— Traffic Pattern
— Airport Visual Aids
— Taxiway Markings
— Ramp Area Hand Signals
— Runway Incursion Avoidance
— Airport Lighting
— Visual Glideslope Indicators
— Approach Light Systems
— Pilot-Controlled Lighting

AERONAUTICAL CHARTS

— Latitude and Longitude - Projections
— Sectional Charts - World Aeronautical Charts
— Chart Symbology

AIRSPACE

— Classifications - Uncontrolled Airspace - Class G
— Controlled Airspace - Class A, B, C, D, E
— Special VFR - Special Use Airspace
— Other Airspace - Emergency Air Traffic Rules
— Air Defense Identification Zones
— Temporary Flight Restrictions

LESSON 5

TIME APROXIMATELY 2 HOURS

OBJECTIVES

- Understand radar, transponder operations, and FAA radar and services for VFR aircraft.
- Understand the services provided by a FSS.
- Understand the use of radio for communications.
- Understand the sources of flight information, i.e., the AIM, and FAA advisory publications.

RADAR AND ATC SERVICES

— Radar
— Transponder Operations
— FAA Radar Systems
— VFR Radar Systems
— Automatic Terminal Information Services
— Flight Service Stations

RADIO PROCEDURES

— VHF Communications Equipment
— Phonetic Alphabet
— Coordinated Universal Time
— Common Traffic Advisory Frequency (CTAF)
— ATC Facilities and Controlled Airports
— Lost Communications Procedures
— Emergency Procedures
— Emergency Locator Transmitters (ELT)

SOURCES OF FLIGHT INFORMATION

— Airport Facility Directory
— Federal Aviation Regulations
— Aeronautical Information Manual
— Notices To Airmen
— Advisory Circulars

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 6 - STAGE EXAMINATION

TIME APPROXIMATELY 1 HOUR

OBJECTIVES

- Demonstrate comprehension of the materials presented in Lessons 1 through 5.

EXAMINATION

— Airplane Systems
— Aerodynamic Principles
— The Flight Environment
— Communication and Fight Information

LESSON COMPLETION STANDARDS

This lesson and stage are complete when the student has completed the stage examination with a minimum grade of 80%. The instructor will review each incorrect response with the student to ensure understanding before the student progresses to the next stage.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

PRIVATE PILOT CERTIFICATION
Ground Training Course

STAGE 2

12 hours approx of ground training

Lessons 7-10

Objectives

Students will become familiar with weather theory, typical weather patterns, and various weather hazards. In addition, the student will learn how to obtain and interpret various weather reports and forecasts. Students will become familiar with the FARs as they apply to private pilot operations.

Stage Completion Standards

This stage is complete when the student has completed the stage written examination with a minimum score of 80%. The instructor will review each incorrect response with the student to ensure understanding before the student progresses to the next stage.

LESSON 7

TIME APPROXIMATELY 4 HOURS

OBJECTIVES

- Understand various weather conditions, frontal systems and hazardous weather phenomena.
- Understand how to recognize critical weather situations from the ground and during flight, including hazards associated with thunderstorms and wind shear.

BASIC WEATHER THEORY

— Atmosphere
— Atmospheric Circulation
— Atmospheric Pressure
— Coriolis Force
— Global Wind Patterns
— Local Wind Patterns

WEATHER PATTERNS

— Atmospheric Stability
— Temperature Inversions
— Moisture
— Humidity
— Dewpoint
— Clouds and Fog
— Precipitation
— Air Masses
— Fronts

WEATHER HAZARDS

— Thunderstorms
— Turbulence
— Wake Turbulence Recognition/Avoidance
— Wind Shear Recognition/Avoidance
— Microbursts
— Icing
— Restrictions to Visibility
— Volcanic Ash

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 8

TIME APPROXIMATELY 3 HOURS

OBJECTIVES

- Understand the appropriate Federal Aviation Regulations applicable to Private Pilot Certification.
- Understand FARs that govern student solo flight operations, private pilot privileges and limitations, required pre-flight actions and National Transportation Safety Board (NTSB) accident reporting requirements.

14 CFR PART 1

14 CFR PART 61

14 CFR PART 91

NTSB 830

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 9

TIME APPROXIMATELY 4 HOURS

OBJECTIVES

- Understand how to obtain and interpret weather reports, forecasts, and charts.
- Understand the sources of weather during preflight planning and while in flight.
- Recognize critical weather situations described by weather reports and forecasts.

THE FORECASTING PROCESS

- Forecasting Methods
- Types of Forecasts
- Compiling and Processing Weather Data
- Forecasting Accuracy and Limitations

PRINTED REPORTS AND FORECASTS

- Routine Aviation Weather Reports (METARs)
- Radar Weather Reports
- Pilot Weather Reports
- Terminal Airport Forecasts (TAFs)
- Aviation Area Forecasts (FAs)
- Severe Weather Reports and Forecasts
- AIRMET, SIGMET, Convective SIGMET

WEATHER CHARTS

- Surface Analysis Charts
- Weather Depiction Charts
- Radar Summary Chart
- Satellite Weather Charts
- Low-Level Significant Weather Prog Chart
- Severe Weather Outlook Chart
- Forecast Winds and Temperatures Aloft Chart
- Volcanic Ash Forecast and Dispersion Chart

SOURCES OF WEATHER INFORMATION

- Preflight Weather Sources
- In-Flight Weather Sources
- Weather Radar Services
- Automated Weather Reporting Services
- Cockpit Displays of Digital Weather and Aeronautical Information.

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 10 - STAGE EXAMINATION

TIME APPROXIMATELY 1 HOUR

OBJECTIVES

- Demonstrate comprehension of the materials presented in Lessons 7 through 9.

EXAMINATION

- Meteorology for Pilots
- Federal Aviation Regulations
- Interpreting Weather Data

LESSON COMPLETION STANDARDS

This lesson and stage are complete when the student has completed the stage examination with a minimum grade of 80%. The instructor will review each incorrect response with the student to ensure understanding before the student progresses to the next stage.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

PRIVATE PILOT CERTIFICATION
Ground Training Course

STAGE 3

12 hours approx of ground training

Lessons 11-15

Objectives

The student will be introduced to aircraft performance, weight and balance information, and cross country flight planning. The student will also obtain a basic knowledge of aviation physiology and decision-making.

Stage Completion Standards

This stage is complete when the student has completed the stage written examination with a minimum score of 80%. The instructor will review each incorrect response with the student to ensure understanding before the student progresses to the end-of-course exam. Additionally, the student must successfully pass the end-of-course exam with a minimum grade of 80% to earn the instructor's endorsement for the FAA Private Pilot Knowledge Exam.

LESSON 11

TIME APPROXIMATELY 3 HOURS

OBJECTIVES

- Understand use of data supplied by the manufacturer to predict airplane performance, including takeoff and landing distances, and fuel requirements.
- Understand how to compute and control the weight and balance condition of an airplane.
- Understand how to perform basic flight planning calculations.
- Understand the effects of atmospheric conditions on aircraft performance.

PREDICTING PERFORMANCE

— Aircraft Performance and Design
— Chart Presentations
— Factors Affecting Performance
— Effects of Density Altitude
— Takeoff and Landing Performance
— Climb Performance
— Cruise Performance
— Using Performance Charts

WEIGHT AND BALANCE

— Importance of Weight
— Importance of Balance
— Terminology
— Principles of Weight and Balance
— Computation Method
— Table Method
— Graphical Method
— Weight-Shift Formula
— Effects of Operating at High Total Weights
— Flight at Various CG Positions

FLIGHT COMPUTERS

— Mechanical Flight Computers
— Time, Speed, and Distance
— Airspeed and Density Altitude Computations
— Wind Problems - Conversions
— Multi-Part Problems
— Electronic Flight Computers
— Modes and Basic Operations

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 12

TIME APPROXIMATELY 2 HOURS

OBJECTIVES

- Understand navigation by pilotage and dead reckoning.
- Understand basic VOR theory and use.
- Understand the basics of Global Positioning Systems and other navigation systems.

PILOTAGE AND DEAD RECKONING

— Pilotage - Dead Reckoning
— Flight Planning - VFR Cruising Altitudes
— Flight Plan - Lost Procedures

VOR NAVIGATION

— VOR Operations
— Ground and Airborne Equipment
— Basic Procedures
— Orientation and Navigation
— Checkpoints and Test Signals
— Precautions
— Horizontal Situation Indicator
— Distance Measuring Equipment

SATELLITE-BASED NAVIGATION

___ Equipment
___ Regulations
___ Authorized Use of Databases
___ Receiver Autonomous Integrity Monitoring (RAIM)

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 13

TIME APPROXIMATELY 2 HOURS

OBJECTIVES

- Understand the importance of physiological factors related to private pilot operations.
- Understand aeronautical decision making, judgement. and risk-management.
- Understand accepted procedures and concepts pertaining to cockpit resource management, and human factors training.

AVIATION PHYSIOLOGY

- Vision in Flight
- Night Vision
- Optical Illusions
- Spatial Disorientation
- Respiration
- Hypoxia
- Hyperventilation
- Dehydration and Nutrition
- Middle Ear and Sinus Block
- Motion Sickness
- Carbon Monoxide Poisoning
- Stress and Fatigue
- Hypothermia
- Effects of Alcohol, Drugs, and Over-the-Counter Medications, and Associated Regulations
- Effects of Dissolved Nitrogen in the Bloodstream of a Pilot or Passenger Inflight Following Scuba Diving

AERONAUTICAL DECISION MAKING

- Applying the Decision Making Process
- Pilot-in-Command Responsibility
- Effects of Hazardous Attitudes on Aeronautical Decision Making
- Communication
- Workload Management
- Situational Awareness
- Resource Use
- Applying Human Factors Training
- Establish Personal Minimums
- Pilot/Airplane Interface: Pilot Monitoring Duties and the Interaction with Charts and Avionics Equipment

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 14

TIME APPROXIMATELY 3 HOURS

OBJECTIVES

- Understand the cross-country planning process.
- Understand the details of flying a cross-country flight, including the evaluation in-flight weather and making decisions on alternative actions, such as diversions and precautionary landings.
- Understand how to plan for an alternative.

FLIGHT PLANNING

- Developing the Route
- Preflight Weather Briefing
- Completing the Navigation Log
- Flight Plan
- Preflight Inspection

THE FLIGHT

- Departure
- Enroute
- Diversion
- Arrival

LESSON COMPLETION STANDARDS

The student will demonstrate understanding of the above material through written or oral questioning, and will answer 80% or greater correctly.

ASSIGNED READING

Reading for the next lesson will be assigned as required.

LESSON 15 - STAGE EXAMINATION

TIME APPROXIMATELY 1 HOUR

OBJECTIVES

- Demonstrate comprehension of the materials presented in Lessons 11 through 14.

EXAMINATION

- Airplane Performance
- Navigation
- Human Factors Principles
- Aeronautical Decision Making
- Cross-Country Flight Planning

LESSON COMPLETION STANDARDS

This lesson and stage are complete when the student has completed the stage examination with a minimum score of 80%. The instructor will review each incorrect response with the student to ensure complete understanding before the student progresses to the end-of-course examination.

UNIVERSITY OF DUBUQUE
PRIVATE PILOT GROUND SCHOOL
END-OF-COURSE EXAMINATION

TIME APPROXIMATELY 1 HOUR

OBJECTIVES

- Demonstrate comprehension of the material presented in this course and the student's readiness to complete the FAA Private Pilot Knowledge Test.

EXAMINATION

- Private Pilot Ground School Final Examination

LESSON COMPLETION STANDARDS

The student must complete a Private Pilot end-of-course examination with a minimum score of 80%.

University of Dubuque

Certificate of Graduation

This certifies that

Student Full Name

has satisfactorily completed:
1—each required stage of the course of training, including the tests for those stages;
2—all cross-country flight training required for the course of training;
3—all other course requirements for the course of training as noted in FAR Part 141;
and has graduated from the Federal Aviation Administration approved

Private Pilot Certification Course

conducted by the University of Dubuque, School Number GV8S178Q.

Private Pilot Certification Course - Appendix B, Paragraphs 4 and 5
Instrument Rating Course - Appendix C, Paragraph 4(c)(1)(i-iv)
Commercial Pilot Certification Course - Appendix D, Paragraphs 4 and 5
Multi-Engine Course - Additional Aircraft Catagory or Class Rating - Appendix I, Paragraphs 3 and 4
Flight Instructor Certification Course (Airplane, Single-Engine) - Appendix F
Flight Instructor Standardization Training Course (Special Curricula 141.57)

UNIVERSITY of DUBUQUE
UD
AVIATION

Date of Graduation

I certify that the above statements are true.

Chief Flight Instructor