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Revision XIII

7/21/22



PRIVATE PILOT CERTIFICATION COURSE -ASEL-

Bridgewater State University holds Pilot School Certificate No. LY8S311Q

Bridgewater State University is an accredited four-year degree granting institution within the state of Massachusetts higher educational system. The base of operations/business address is 111 Harrington Hall, Bridgewater, MA 02325.

The Facilities Manual is Part 1 of the Training Course Outline and meets the requirements of 14 CFR Part 141.55 (c), subsections 1-5.

Ground and Flight Course Manuals are contained in Part 2 and meet the requirements of the Training Course Outline specified in 14 CFR 141.55 (c) 6-8.





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RECORD OF REVISIONS

REV.#	DATE	CONTENT	INITIAL
I	2/18/09	Updates facility briefing room locations, facility diagram, and adds Asst. Chief (Ground and Flight)	
II	6/2/09	Updates table of contents, removes Jeppesen references as required ground school course material.	
III	8/17/09	Increases level of performance on Stage I and II flight lessons to meet PTS. Increases level of performance on Stage III flight lessons to exceed PTS. Clarifies requirement for number of stall maneuvers on various lessons.	
IV	10/14/09	Lesson #4 introduces power on and power off stalls (VR/IR) and lessons #5 and #15 add review of these same tasks.	
V	9/20/10	Updates subject areas and tasks on ground lessons 1 – 3, 12, 14 – 16. Corrects grammatical errors in Stage I and Stage II lessons, lesson completion standards on lessons 8/9. Updates language throughout to reflect name change from Bridgewater State College to Bridgewater State University.	
VI	7/15/13	Moves AATD lessons from stage I to stage II. Updates lessons in all stages to increase emphasis on basic VFR airmanship, ADM.	
VII	8/5/13	Reduces number of stages in course to (2). Re-aligns ground lessons to more closely parallel flight lessons. Increases emphasis on airmanship and ADM.	
VIII	12/6/16	Converts all appropriate sections to Airman Certification Standards.	
IX	1/12/18	Change of Chief Instructor/Assistant Chief Instructor(s), addition of Redbird AATD.	
X	7/10/18	Changes to Lesson content and order, addition of CPTs, Addition of 3 mandatory ground lessons and 2 CPT/AATD lessons in Flight Course	
XI	9/17/20	Change of chief instructor, updated airport diagram, facility diagram, corrected list of affected pages, adds TAA as available training aircraft, minor grammar corrections.	
XII	6/21/21	Change of Chief and Assistant Chief Instructors, addition of distance learning capability, adds satellite location, corrected list of affected pages, minor grammar corrections.	
XIII	7/21/22	Change of Assistant Chief Instructors	

NOTE

After inserting a revision, enter the date the revision is to be effective, and place your initials in the appropriate column. The manual holder is responsible for maintaining current revisions



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PRIVATE PILOT CERTIFICATION COURSE -ASEL-

PART I

FACILITIES MANUAL

The Facilities Manual is Part 1 of the Training Course Outline and meets the requirements of 14 CFR Part 141.55 (c), subsections 1-5.



PART I

FACILITIES MANUAL

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Bridgewater State University Facility

The Bridgewater State University campus located in Bridgewater, Massachusetts, is the primary business address and administrative office for this course.

Academics

The academics facilities are located on the campus of Bridgewater State University, Harrington Hall, 95 Grove Street, Bridgewater, Massachusetts. Bridgewater State University may elect to conduct the academic ground courses for students at its' flight training facility, located at New Bedford Regional Airport, New Bedford, Massachusetts.

Distance Learning

Bridgewater State University may deliver ground training in accordance with 14 CFR 141.53(d) utilizing internet-based tools described below.

- All courses are delivered using the Blackboard learning management system that requires a unique login to ensure identification/authorization, confidentiality, and access control. Blackboard allows out-of-class communications, attendance tracking, in-class discussion, participation, questions and answers, assignment feedback, and assessment feedback.
- Access to Blackboard is available through (4) different internet browsers.
- Blackboard monitors attendance for record-keeping compliance. Participants will be noted in their paper records to differentiate participants in the distance learning platform.
- A secure internet proctoring resource (Respondus Lockdown Browser) ensures integrity of stage exams, end-of-course and final exams.
- The Principle Operations Inspector (POI) receives a Blackboard account to allow for remote access to each course in accordance with 14 CFR 141.53(d)(2).

Classrooms

Academic classes will typically be conducted in Harrington Hall in two (2) classrooms located on the ground floor of the building. Classroom 001 measures 24' by 20' and can accommodate 24 students. Classroom 002 measures 35' by 20' and can accommodate 30 students. Both classrooms contain computerized projection equipment and dry erase boards. Other rooms may be available and assigned by the University as necessary.

Ground Training Aids

- Overhead projector with Audio/Visual capability
- Computer terminal including internet access
- Video projector with DVD capability
- Ceiling-mounted video projector unit
- Wall-mounted dry-erase board

NOTE

All classrooms and administrative areas comply with current local building, health and sanitation codes. All rooms are enclosed and easily accessible, and provide a clean instructional environment free from outside distractions.



Bridgewater State University Classroom Diagram

Storage	Cockpit Mock-up	Storage
	Classroom 002 30 Student Capacity 35' by 20'	y
	Classroom 001 24 Student Capacity 24' by 20'	y



New Bedford (KEWB) Flight Training Center

Bridgewater State University's Aviation Training Center, located at the New Bedford Regional Airport at 1852 Shawmut Avenue, North Dartmouth, MA 02747, is the central location for all flight training activity.

Aircraft

Bridgewater State University's flight training program may utilize two (2) aircraft for this course of training:

The Piper PA-28R Arrow is a four-place, single-engine, complex aircraft with dual flight controls. The aircraft is rated in the Normal category and certified for Day/Night VFR/IFR Operations. The aircraft meets the requirements of 14 CFR Part 141.39 and 141.75.

The Cessna 172 is a four-place, single-engine, non-complex aircraft with dual flight controls. The aircraft is rated in the Normal and Utility categories and is certified for Day/Night VFR/IFR Operations. The aircraft meets the requirements of 14 CFR Part 141.39 and 141.75. Two (2) of the Cessna 172 aircraft qualify as Technically Advanced Airplanes per the requirements of 14 CFR Part 61.1 and 61.129(j).

Special equipment required for the course includes a VOR receiver, LOC and GS receivers, Transponder with Mode C, and GPS.

AATDs

Bridgewater State University's flight training program may utilize the following advanced aviation training devices for this course of training:

(1) Redbird Model LD, FMX

CPTs

Bridgewater State University's flight training program may utilize four (4) identical C-172R Cockpit Procedures Trainers (CPTs) for this course of training.

New Bedford Regional Airport

The New Bedford Regional Airport (KEWB) is the main flight training center for the Bridgewater State University aviation program. KEWB contains two (2) hard-surfaced runways and meets the requirements of 14 CFR Part 141.38 for both day and night flight operations. KEWB has an operational control tower that is staffed from 0700-2200 local time. The airport has operable ILS, LOC, LOC/BC, and GPS approaches. Maintenance service is available from 0700-1700 and on call during evening and night flight operations. Fuel service is available 0700-2000 daily, on call at other times.

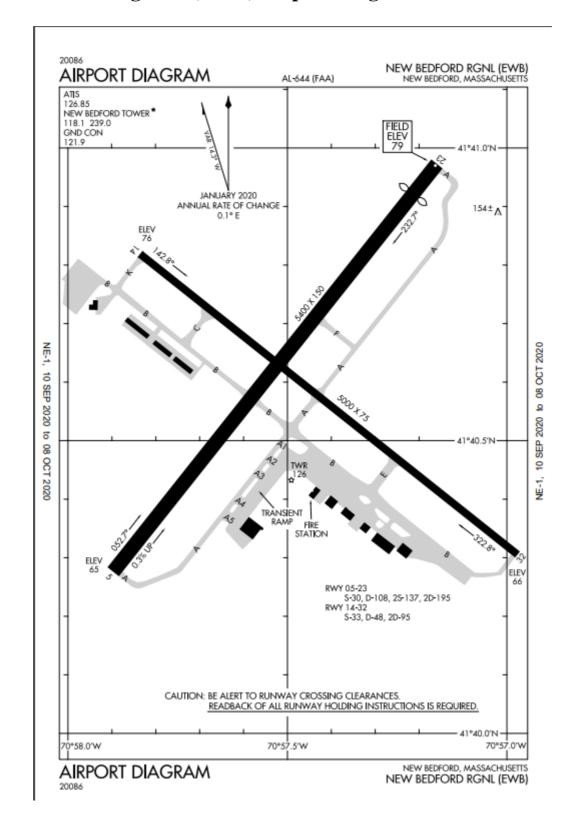


Training Airports

All airports used for training operations meet the requirements of 14 CFR Part 141.38. Guidance for use of these airports is provided for flight instructors and students via the Approved Airports listing in the Bridgewater State University Aviation Operations Manual. The Chief Flight Instructor or his/her designee may approve the use of any public-use airport listed in the current Chart Supplement.



New Bedford Regional (EWB) Airport Diagram





Flight Briefing Area

The main flight briefing area is centrally located within the operations building and measures 22' by 33'. It is equipped with briefing tables, chairs, cubicles (equipped with dry erase boards), a computer-based weather information station that provides textual and graphic weather reports and forecasts, and a landline phone connecting to a FSS Briefer. The room can accommodate up to 40 persons. There is a partition between the briefing area and the AATD Rooms (described below) that when removed allows for a 44' by 33' space that can be used for large meetings.

AATD Room

The Advanced Aviation Training Devices are located in a room adjacent to the Flight Briefing Area. The room measures 22' by 32'.

Classroom Area

The classroom area is located at the southeast corner of the facility, and is accessible from either the main facility entrance or from the rear of the classroom on the rearward side of the building. The classroom measures 23' by 34' and accommodates up to 50 persons. The room is equipped with tables, chairs, and dry erase boards.

Administrative Offices

The facility contains multiple administrative offices. Measuring 9' by 11', 9' by '14', 12' by 18', 14' by 24', 16' by 22' or 18' by 24', each can accommodate (5) to (10) persons, respectively.

Ground Training Aids

- Overhead projector with audio/visual capability
- Computer terminal including internet access
- Video projector with DVD capability
- Ceiling-mounted video projector unit
- Wall-mounted dry-erase board
- Aeronautical charts, publications, and aircraft components for training purposes only
- Resource library
- C172R Cockpit Procedures Trainers (CPT)

NOTE

All classrooms and administrative areas comply with current local building, health and sanitation codes. All rooms are enclosed and easily accessible, and provide a clean instructional and operational environment free from outside distractions.



Flight Training Center Diagram

Closet		Offic & Rec	Dispatch Office	ıtrance		Mechanical Room
Office 2' x 18'	: 24'	18' x	14' x 24'	Main Entrance	Closet Ladies' Room	Men's Room
Stage Check Room 9' x 11'			lanning,	Weather	oom	— — AATD Ro
		Stage Check	ing Area			32' by 2
Office	Room	9'x14'			2'	

Ground School
Classroom
23' x 34'



CENTRAL BAY AREA

	Briefing Cubicle with CPT	Briefing Cubicle with CPT	
Briefing Cubicle with CPT			
Briefing Cubicle with CPT			
		tudent Study Area	



PRIVATE PILOT CERTIFICATION COURSE -ASEL-

PART II COURSE MANUAL



PRIVATE PILOT GROUND TRAINING COURSE

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PERSONNEL

CHIEF FLIGHT INSTRUCTOR

The Chief Flight Instructor for this course is Tim Townsend. The Chief Flight Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter. Whenever the Chief Flight Instructor is either undesignated or unavailable, the Assistant Chief Flight Instructor will assume these duties.

ASSISTANT CHIEF FLIGHT INSTRUCTOR

The Assistant Chief Flight Instructors for this course are Loren Herren, Jared Rylant and Brandyn Johnson. The Assistant Chief Flight Instructor meets the requirements of 14 CFR 141.36 (b) and is designated by letter.

CHIEF GROUND INSTRUCTOR

The Chief Ground Instructor for this course is Tim Townsend. The Chief Ground Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter. Whenever the Chief Ground Instructor is either undesignated or unavailable, the Assistant Chief Flight Instructor will assume these duties.

ASSISTANT CHIEF GROUND INSTRUCTOR

The Assistant Chief Ground Instructor for this course is Loren Herren. The Assistant Chief Ground Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter.

GROUND INSTRUCTORS

Each Ground Instructor assigned to this course must possess a valid Ground Instructor Certificate or a valid Flight Instructor Certificate with an Airplane rating. Other individuals may give instruction in this course if the Chief Flight Instructor finds that individual qualified to provide instruction. The instruction will be provided under the direct supervision of the Chief Instructor who is present at the facility when such instruction is given.

FLIGHT INSTRUCTORS

Each Flight Instructor assigned to this course must possess a valid Flight Instructor Certificate with an Airplane rating, and a valid Commercial Pilot certificate.



STUDENT INFORMATION

COURSE ENROLLMENT

To be eligible for enrollment in this course, students must be enrolled either as full-time degree-seeking students or as non-degree seeking students at Bridgewater State University, be of at least 16 years of age and be in possession of at least an FAA Third Class Medical Certificate. Additionally, they must have received or have submitted an application for an FAA Student Pilot Certificate.

COMPLETION STANDARDS FOR GRADUATION

To be eligible for graduation from this course, students must be able to read, speak, write, and understand the English language, and satisfactorily complete all ground and flight training tasks and lessons in this syllabus. Students will demonstrate through oral and written exams and flight tests the knowledge and skill requirements needed to pass the FAA Private Pilot Airman Knowledge Test and Practical Test.

LESSON DESCRIPTION AND STAGES OF TRAINING

The Bridgewater State University Private Pilot Course (ground) contains two (2) stages and a total of 21 lessons. The Flight portion of the course contains three (3) stages and 26 total lessons. Each lesson is fully described within the syllabus and includes objectives, completion standards, and measurable units of accomplishment. Stage objectives and completion standards are provided at the beginning of each stage within the syllabus.

TESTS AND STAGE CHECKS

The syllabus incorporates stage checks and end-of-course tests in accordance with CFR Part 141, Appendix B. The Chief Flight Instructor is responsible for ensuring that each student accomplishes the required stage checks and end-of-course tests in accordance with Bridgewater State University's approved training course. The Chief Flight Instructor may delegate authority for stage checks and end-of-course tests to a Check Instructor.



COURSE INTRODUCTION

The Bridgewater State University Private Pilot Course coordinates academic study assignments and flight training required for pilots learning to operate in a complex aviation environment. New subject matter is introduced during the ground lessons in multimedia formats, including but not limited to:

- 1. FAA Private Pilot Airman Certification Standards
- 2. Federal Aviation Regulations
- 3. Aeronautical Information Manual
- 4. FAA Pilot's Handbook of Aeronautical Knowledge
- 5. FAA Risk Management Handbook
- 6. FAA Airplane Flying Handbook
- 7. FAA AC 00-45 Aviation Weather
- 8. FAA AC 00-6 Aviation Weather Services
- 9. Appropriate Pilot's Operating Handbook
- 10. Appropriate BSU Flight Standards Manual
- 11. E6B Flight Computer and Manual
- 12. Current Chart Supplement
- 13. Current VFR Navigation Charts
- 14. Multi-media presentations
- 15. Instructor/student discussions
- 16. Knowledge quizzes and written exams

Whenever possible and practical, ground lessons are completed in ground school just prior to the respective flight lessons outlined in the syllabus. Bridgewater State University may elect to present all of the ground lessons before the student is introduced to the airplane. If a significant amount of time lapses between ground and flight lessons, instructors are expected to conduct review training of essential material to ensure that the student has retained and can apply the previous material. Flight lessons should not be conducted until the related ground lesson has been completed.

In accordance with established FAA practices, this syllabus utilizes the building-block theory of learning, where each item taught must be presented on the basis of previously learned knowledge and skills. It is designed to coordinate academic support materials with the flight lessons.

COURSE ELEMENTS

The Bridgewater State University Private Pilot-Airplane Course is designed to be conducted as a combined ground and flight training program, but it may be divided into separate components. This course includes the most current FAA pilot certification requirements. The syllabus and support materials provide necessary information and present the course in a logical manner.



GROUND TRAINING

In accordance with FAR Part 141, ground school training is an integral part of pilot certification courses. The Bridgewater State University ground training syllabus has been designed to meet this requirement. This course coordinates the sequence of ground and flight events to maximize effectiveness of the academic knowledge and its application during flight events.

Lessons shall be conducted in the numerical order as listed in the ground and flight training segments of the syllabus. Flexibility for adapting to individual student needs and training situations is occasionally required, but the syllabus lesson sequence may be altered only with the prior approval of the Chief or Assistant Chief Flight Instructor. Any deviation should not disturb the course continuity or objective. Each lesson may be presented in one session or divided into multiple sessions, as necessary.

USING THE GROUND LESSONS

The Bridgewater State University Private Pilot Course Ground lessons are best utilized by using all of the individual elements together in an organized approach as described in the syllabus. The syllabus contains cross-references which direct the user to the appropriate study materials for each lesson. Instructors are reminded to review the study assignment for the next lesson with their students.

STAGE CHECKS

Stage exams evaluate the student's level of knowledge, risk management capability, and proficiency within a stage of training. Students must successfully complete each stage exam before progressing to the next stage. The Chief Flight Instructor is responsible for the conduct of each stage check and may designate authority for conducting the stage check to a Check Instructor, as necessary. This procedure provides close supervision of training, provides another opinion on the student's progress, and gives the Chief Flight Instructor an opportunity to evaluate training effectiveness. Minimum passing score for any written stage or final exam for the purpose of earning Part 141 credit toward the Private Pilot-Airplane certificate is 80%.

TEXTBOOKS/MULTI-MEDIA PRESENTATIONS

Prior to each ground lesson, students are expected to study the assigned text(s) or other media as the primary sources for initial study and review. The texts and media contain concise explanations of the fundamental concepts and ideas and are organized in a logical building-block sequence. Study of the assigned materials prior to the scheduled lesson will improve student preparation and reduce overall training time.



PRIVATE PILOT-AIRPLANE GROUND COURSE

COURSE OVERVIEW

COURSE OBJECTIVE

The student will obtain the knowledge, risk-management capability and proficiency necessary to meet the requirements for a Private Pilot certificate with an Airplane category rating and a single-engine land class rating.

COURSE COMPLETION STANDARDS

The student must demonstrate through knowledge tests, flight tests, and appropriate records that he/she meets the knowledge, risk management and proficiency requirements necessary to obtain a Private Pilot certificate with an Airplane category rating and a single-engine land class rating.

TRAINING SYLLABUS

The Bridgewater State University Private Pilot syllabus meets all curriculum requirements of 14 CFR 141, Appendix B.

TRAINING COURSE

The Ground Training course contains two (2) stages and a total of nineteen (19) lessons.



PRIVATE PILOT-AIRPLANE GROUND COURSE SYLLABUS

GROUND TRAINING COURSE OBJECTIVE

The student will obtain and demonstrate knowledge and aeronautical decision-making at a level that meets or exceeds FAA Private Pilot Airman Certification Standard and which is required to pass the FAA Private Pilot Airmen Knowledge test.

LESSON GRADING AND COMPLETION STANDARD

Each ground lesson is graded across three (3) elements; Knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), Risk Management (defined by the applicant's ability to identify, assess and mitigate risks associated with the task) and Skill (defined by the applicant's ability to apply the skill necessary to achieve the listed objective).

GROUND TRAINING COMPLETION STANDARD

The student must demonstrate through written, oral and practical examination that s/he has obtained the knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), risk management ability (defined by the applicant's ability to identify, assess and mitigate risks associated with the task) and skill (defined by the applicant's ability to apply the skill necessary to achieve the listed objective).at a level that meets or exceeds FAA Private Pilot - Airplane Airman Certification Standard and which is required to pass the FAA Private Pilot (ASEL) Airmen Knowledge test.

ATTENDANCE

Attendance and active participation is mandatory and failure to attend and/or participate in a scheduled event is considered an unexcused absence. Students are responsible for contacting their Ground Instructor if there is any question whether a training event will take place. (Aviation Operations Manual, Chapter 5). Any missed class time <u>must</u> be made up and all missed lesson items must be covered in order to complete the course, in accordance with 14 CFR Part 141.



PRIVATE PILOT-AIRPANE GROUND COURSE TIME ALLOCATION TABLE

STAGE I

LESSON	SUBJECT	HOURS Training	Exam
I.	Human Factors I, ADM, Risk Management	2.0	
II.	Principles of Flight, Weight and Balance	3.0	
III.	Performance and Limitations I	3.0	
IV.	Communication and Navigation	2.0	
V.	Introduction to Aircraft Systems	3.0	
VI.	Federal Aviation Regulations and Flight Operations	2.0	
VII.	Airports and Airspace	3.0	
VIII.	Intro to WX Theory, Obtaining WX Information	2.0	
IX.	Stage I Exam		2.0
Stage I Total	ls	20.0	2.0

STAGE II

LESSON	SUBJECT	HOURS	
		Training	Exam
X.	Human Factors and Aviation Physiology II	2.0	
XI.	Navigation and Flight Planning	4.0	
XII.	Airports and Airspace II, Radar and ATC Services	2.0	
XIII.	Weather Theory II, WX Patterns and Hazards	3.0	
XIV.	Obtaining Weather Information	2.0	
XV.	Principles of Flight, Weight and Balance, Stability II	3.0	
XVI.	Federal Aviation Regulations/AIM/NTSB 830	2.0	
XVII.	Aircraft Systems II	2.0	
XVIII.	Stage II Exam		2.0
XIX.	Final Exam		3.0
Stage II Tota	als	20.0	5.0
Course Tot	als	40.0	7.0



STAGE I

STAGE OBJECTIVE

The student will obtain and demonstrate the knowledge and aeronautical decision making skills necessary for safely operating the aircraft as a solo pilot in the airport environment and in the local area.

STAGE COMPLETION STANDARD

This stage is complete when the student completes all oral and written quizzes and the Stage I written exam with a minimum passing score of 80%.



STAGE I GROUND LESSON 1 (2.0 hrs) HUMAN FACTORS I, RISK MANAGEMENT AND AERONAUTICAL DECISION MAKING

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge, Ch. 16-2, 17, AIM Ch. 8, FAA Risk Management Handbook, Ch. 1-6.

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to the role of the pilot in command, the interface between human factors and aircraft operations, and the importance and process of risk assessment and decision-making during flight operations.

CONTENT

Res	consibility and Authority of the
Pilo	t-in-Command
Defi	ning Risk Management
Hun	nan Behavior
Iden	tifying Hazards and Mitigating Risk
Risk	Assessment Methods
Aere	onautical Decision Making
Sing	le Pilot Resource Management

COMPLETION STANDARDS

Through in-class oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with human factors, risk management and aeronautical decision making.



STAGE I GROUND LESSON 2 (3.0) PRINCIPLES OF FLIGHT, WEIGHT AND BALANCE, STABILITY

LESSON REFERENCES

FAA PHAK, Ch. 3, 4, AFH Chs. 4 – 9, BSU TOLD card, Aircraft POH

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students are introduced to airfoil components and principles of flight, pilot control of the aircraft, and the importance and influence of aircraft weight and balance and stability on aircraft flight characteristics.

CONTENT

PRINCIPLES OF FLIGHT
Basic Airfoil Components
Relative Wind, Angle of Attacl
Lift
Weight
Thrust
Drag
Ground Effect
WEIGHT AND BALANCE
Reference Datum
Weight, Arm, Moment
Center of Gravity
Proper Aircraft Loading
Load Factor
APPLICATIONS IN FLIGHT
Take Off and Climb
Straight and Level
Turning
Descending
Approach and Landing

COMPLETION STANDARDS

Through oral and/or written quizzing, students will exhibit satisfactory knowledge, risk management, and skills associated with principles of flight and weight and balance and their application during all phases of flight.



STAGE I GROUND LESSON 3 (3.0) PERFORMANCE AND LIMITATIONS I

LESSON REFERENCES

FAA PHAK Chs. 9, 10, Aircraft POH, E6B and Flight Computer Manual

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to basic operation and application of manual and electronic flight computers, performance charts and weight/balance data in pre-flight planning, including weight and balance and performance calculations.

CONTENT

DETERMINING AIRCRAFT
PERFORMANCE

____ Aircraft Performance and Design
___ Determining Performance, FAR 91.103
___ Factors Affecting Performance
___ Density Altitude
__ Pressure Altitude
__ Takeoff and Landing Performance
__ Performance Chart Presentations and Use

WEIGHT AND BALANCE
___ Computing Weight and Balance
__ Computation Method

___ Table and Graph Methods

COMPLETION STANDARDS

During multiple scenarios students will exhibit satisfactory knowledge, risk management, and skills associated with performance and limitations, and demonstrate proper use of a manual or electronic flight computer and aircraft performance/weight and balance charts to complete a BSU TOLD card.



STAGE I GROUND LESSON 4 (2.0) COMMUNICATION AND NAVIGATION

LESSON REFERENCES

FAR Part 91, AIM Ch. 4, Pilot/Controller Glossary, Terminal Area Chart (Boston), Sectional Chart (New York), Chart Supplement

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to the aircraft communication and navigation equipment, communication terminology and phraseology, proper communication procedures, aeronautical charts and their use.

CONTENT

N / N	ATT T	NIIC	Λ T	$I \cap N$

COMMUNICATION
Aircraft Communication Equipment
Including ELT
Phonetic Alphabet
Phraseology and Terminology
CTAF and UNICOM
Controlled and Uncontrolled Airports
Lost Communication Procedures
Emergency Procedure
NAVIGATION
Coordinated Universal Time
Latitude and Longitude
Chart Legend and Symbology
Terminal Area Charts
Sectional Charts
Chart Supplement
Paper vs. Electronic Charts
Aircraft Navigation Equipment

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with aviation communications and navigation.



STAGE I GROUND LESSON 5 (3.0) INTRODUCTION TO AIRCRAFT SYSTEMS

LESSON REFERENCES

FAA PHAK, Ch. 2, 5, 6, 7, Aircraft Pilot's Operating Handbook

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students are introduced to the structure, components, and operation of the training airplane and it systems. The lesson shall include a full walk-around of the training aircraft.

CONTENT

Visual Inspection: "Walk Around"
Fuselage
Wings
Empennage
Landing Gear
Power plant/Propeller
Flight Controls and Trim
Flaps
Engine Instruments
Flight Instruments
Electrical, Fuel, Environmental
Pilot's Operating Handbook (POH)

COMPLETION STANDARDS:

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the operation of aircraft systems.



STAGE I GROUND LESSON 6 (2.0) FEDERAL AVIATION REGULATIONS AND FLIGHT OPERATIONS

LESSON REFERENCES

Federal Aviation Regulations Parts 1, 23, 43, 61, 67, 91, AIM 1 – 10, BSU TOLD card

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students are introduced to sections of the Federal Aviation Regulations (FARs) and Aeronautical Information Manual specific to safe Student solo, their use and importance for safe flight operations.

CONTENT:

Overview of 14 CFR/FARs
Part 1
Part 43 (Maintenance)
Part 61 (Airmen)
Part 67 (Medical)
Part 91 (Operating Rules)
AIM (Aeronautical Information
Manual) Overview and Chapter Walk-
Through

COMPLETION STANDARDS

Students will exhibit satisfactory knowledge, risk management, and skills associated with the type, privileges and limitations of FAA Medical Certificates and the Student Pilot Certificate, applicable FARs and sections of the AIM.



STAGE I GROUND LESSON 7 (3.0) AIRPORTS AND AIRSPACE

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge, Ch. 13, 14, FAR Part 61, 71, 91, AIM Ch. 2, 3, 4-2, Ch. 5-1, 5-22, 5-7 – 10. Ch. 6, Section 4.

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

The student will be introduced to airport operations and the national airspace system when operating under visual flight rules as a Private Pilot.

CONTENTAIRPORTS

	Controlled and Non-controlled
	Runway Layout, Airport Diagram
	Airport, Runway & Taxiway Markings,
	Lighting, and Wind Indicators
	Right of Way Rules and Collision Avoidance
	Runway Incursion Avoidance
	Situational Awareness
	Use of Radio, Proper Communications
	Compliance with ATC Instructions
AIR	RSPACE
	National Airspace System
	Types of Airspace/Airspace Classes, Basic
	Weather Minimums (emphasis on Class D, E
	and G Airspace)
	Charting Symbology
	Operating rules, Pilot Certifications, and
	Aircraft Equipment for Different Types of
	Airspace
	Special Use, Restricted, and Other Airspace
	Temporary Flight Restrictions

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with airports and airspace in the national airspace system.



STAGE I GROUND LESSON 8 (2.0) INTRODUCTION TO WX, OBTAINING WX INFORMATION

LESSON REFERENCES

Pilot's Handbook of Aeronautical Knowledge, Ch. 11, AIM Ch. 7, AC 00-6, AC-00-45H

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Student are introduced to basic weather theory and information to be used for local flight planning.

CONTENT

The Atmosphere
Temperature, Pressure, Density
Atmospheric Circulation
Coriolis Force
Air Masses and Fronts
Local Wind Patterns
Atmospheric Stability
Moisture & Humidity
Dew Point
Clouds and Fog
Precipitation
PIREP
METAR
TAF
ATIS
Graphical Forecasts for Aviation (GFA
Tool)

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with basic weather theory, information, and applicability to flight operations



STAGE I GROUND LESSON 9 (2.0) STAGE I EXAM

LESSON REFERENCES

Lesson reference material for lessons 1-9.

RECOMMENDED SEQUENCE

- 1. Testing
- 2. Critique

LESSON OBJECTIVE

Students will demonstrate comprehension of the material presented in lessons 1 through 9.

CONTENT

STA	CE	$\Gamma \mathbf{F} \mathbf{V}$	٨	1/

STAGETEXAM
Human Factors I, ADM, Risk
Management
Introduction to FARs/AIM
Aircraft Systems
Principles of Flight, Weight and
Balance, Stability
Performance I
Airports and Airspace
Communication and Navigation
Intro to WX/Obtaining WX Info

COMPLETION STANDARDS

This lesson and stage are complete when the student has completed the Stage I Exam with a minimum score of 80%.



STAGE II

STAGE OBJECTIVE

During this stage, the student will increase and exhibit satisfactory knowledge, risk management, and skills associated with human factors and aeronautical decision-making, aviation physiology, aircraft systems, applicable FARs (including incident/accident reporting), weather theory, patterns and hazards, how to obtain and interpret aviation weather information, and how to apply available information and resources to safely plan and execute solo and cross-country flight operations.

STAGE COMPLETION STANDARD

This stage is complete when the student has demonstrated an understanding of the knowledge areas by completing the Stage II written exam with a minimum passing score of 80%.



STAGE II GROUND LESSON 10 (2.0) HUMAN FACTORS AND AVIATION PHYSIOLOGY II

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge Ch. 16, 17, FAR Parts 61, 91, AIM Ch. 8

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students will gain a basic understanding of physiological factors related to aviation operations, and increase their knowledge and development of aeronautical decision making skills and risk management.

CONTENT

AVIATION PHYSIOLOGY
Fitness for Flight
Alcohol and Drugs, FAR Part 61, 91
FAR Part 67
Respiration
Hypoxia
Hyperventilation
VISION
Eye Physiology
Day and Night Vision & Scanning
Visual Illusions
Landing Illusions
Day vs Night Preparation
SPATIAL DISORIENTATION
Visual Sense
Vestibular Sense
Kinesthetic Sense
Disorientation/Illusions

AERONAUTICAL
DECISION MAKING
Risk Management
Models
Applying the Decision
Making Process
Communication
Single Pilot Resource Management
Workload Management
Situational Awareness

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the lesson content.

Motion Sickness



STAGE II GROUND LESSON 11 (4.0) NAVIGATION AND FLIGHT PLANNING

LESSON REFERENCES	Conversions
FAA Pilot's Handbook of Aeronautical	Multi-Part Problems
Knowledge Ch. 9, 10, 15 – 17, AIM Ch.	
1, 5, Sectional Chart, TAC, VFR	FLIGHT SCENARIO
Plotter, Navigation Log, Aircraft POH	Departure
	KEWB to KHYA to KPVC to KBED
RECOMMENDED SEQUENCE	Diversion to an Alternate to KPVD
1. Lesson Introduction	Return to KEWB
2. Discussion and Practice Exercises	
3. Knowledge Review	PILOTAGE AND DEAD RECKONING
	Pilotage
LESSON OBJECTIVE	Dead Reckoning
Students will learn basic VFR navigation	Flight Planning
using pilotage, dead reckoning, and	VFR Cruising Altitudes
navigation systems, and become familiar	Flight Plan
with recommended procedures for flight	Lost Procedures
planning, use of an FAA Flight Plan, VFR	
cruising altitudes, and lost procedures.	VOR NAVIGATION
	VOR Operations
CONTENT	Ground and Airborne Equipment
PRE-FLIGHT PLANNING	Basic Procedures
Weight-Shift Formula	VOR Orientation and Navigation
Effects of Operating at High Total	VOR Checkpoints and Test Signals
Weights	VOR Precautions
Flight at Various CG Locations	Horizontal Situation Indicator
Route Selection	Distance Measuring Equipment (DME)
Obtaining Weather Information	
Completing the Navigation Log	ADVANCED NAVIGATION EQUIP.
Filing, Opening, Amending, Closing	VORTAC-Based Area Navigation
the Flight Plan	Global Positioning System (GPS)
Preflight Inspection	Wide Area Augmentation System
ELICUT COMPLITED C	(WAAS)
FLIGHT COMPUTERS Machanical Flight Computers	COMPLETION STANDARDS
Mechanical Flight Computers	
Electronic Flight Computers and Online	Through oral and/or written quizzing
Applications	students will exhibit satisfactory knowledge,

__ Compute Time, Speed, and Distance

Compute Wind ProblemsComputer Weight Problems

__ Compute Airspeed and Density Altitude

risk management, and skills associated with

the lesson content.



STAGE II GROUND LESSON 12 (2.0) AIRPORTS AND AIRSPACE II, RADAR AND ATC SERVICES

LESSON REFERENCES

FAA PHAK Ch. 14, FAR 91.130 – 145, AIM Ch. 3, 5 (Sect 6), Sectional Chart, TAC

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Discussion and Practice Exercises
- 3. Knowledge Review

LESSON OBJECTIVE

Students will gain a basic understanding of the national airspace system and the services provided by various entities including radar services, automated weather services, and flight service stations.

CONTENT

AIRSPACE

	Types of Airspace/Airspace Classes, Basic Weather Minimums (emphasis on
	Class A, B and C Airspace)
	Special VFR
	Emergency Air Traffic Rules
	Air Defense Identification Zones
	Air Intercept Procedures
RA	DAR and ATC SERVICES
	Radar
	Transponder Requirements
	Automated Dependent Surveillance
	Broadcast (ADS-B)
	FAA Radar Systems
	VFR Radar Services
	Automated Terminal Information Svc
	(ATIS)
	Flight Service Stations

COMPLETION STANDARD



STAGE II GROUND LESSON 13 (3.0) WEATHER THEORY II, WX PATTERNS AND HAZARDS

LESSON REFERENCES

Pilot's Handbook of Aeronautical Knowledge, Ch. 11, AIM Ch. 7, AC 00-6 Aviation Weather

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to various weather conditions, systems, and hazardous phenomena. Students will learn how to recognize and avoid critical weather situations before and during flight, including hazards associated with thunderstorms, wind shear and wake turbulence.

CONTENT

WEAT	THER HAZARDS
Tł	nunderstorms
Τι	urbulence
W	ake Turbulence
Lo	ow Level Wind Shear and Avoidance
Pr	rocedures
In	-Flight Wind Shear and Avoidance
Pr	rocedures
M	icroburst
Ic	ing
Re	estrictions to Visibility
V	olcanic Ash

COMPLETION STANDARDS:



STAGE II GROUND LESSON 14 (2.0) OBTAINING WEATHER INFORMATION II

LESSON REFERENCES

FAA PHAK, Ch. 12, AIM Ch. 7, AC 00-45 Aviation Weather Services

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students will learn how to obtain, interpret and apply advanced weather information products from a variety of text and graphic resources, and learn to recognize and plan for critical weather situations.

CONTENT

FORECASTING

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

TEXTUAL REPORTS AND FORECASTS

- ___ Radar Weather Reports
- ___ Winds & Temps Aloft Forecast (FD)
- ____ Severe Weather Reports and Forecasts
- ___ AIRMET/SIGMET/Convective
 - SIGMET (WA/WS/WST)

GRAPHIC WEATHER PRODUCTS

- ___ Surface Analysis Chart
- ___ Weather Depiction Chart
- ____ Radar Summary Chart
- ____ Satellite Weather Pictures
- Low-Level Significant Weather Prog
- Convective Outlook Chart
- ___ Forecast Winds and Temps Aloft Chart
- ____ Volcanic Ash Frcst/Dispersion Chart

SOURCES OF WEATHER

INFORMATION

- ____ Preflight Weather Sources
- ___ In-Flight Weather Sources___ Enroute Flight Advisory Service
- ___ Weather Radar Services
- ____ Automated Weather Reporting Systems

COMPLETION STANDARDS



STAGE II GROUND LESSON 15 (3.0) PRINCIPLES OF FLIGHT, WEIGHT AND BALANCE, STABILITY II

LESSON REFERENCES

FAA PHAK, Ch. 3, 4, AFH Ch. 4 – 9, BSU TOLD card, Aircraft POH

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

CONTENT

Students will obtain additional and more in-depth knowledge of airfoil components and principles of flight, pilot control of the aircraft, and the importance and influence of aircraft weight and balance and stability on aircraft flight characteristics

CONTENT
STABILITY
Three Axes of Flight
Dynamic, Static, Neutral Stability
Longitudinal Stability
Lateral Stability
Directional Stability
Weight Shift and Tail-Down Force
DRAG
Types of Drag
Drag (Power) Curve
PROPELLER DYAMICS
Basic Propeller Principles
Left-Turning Tendencies
AERODYNAMICS
Lift and Drag Formula
Load Factor and VG Diagram
Stall/Factors and Awareness

COMPLETION STANDARDS

Through oral and/or written quizzing, students will exhibit satisfactory knowledge, risk management, and skills associated with principles of flight and stability, and their application during all phases of flight.



STAGE II GROUND LESSON 16 (2.0) FEDERAL AVIATION REGULATIONS/AIM II, NTSB 830

LESSON REFERENCES

FARS, AIM, NTSB 830, NASA Report

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

The student will increase his/her knowledge of the elements of the Federal Aviation Regulations (FARs), Aeronautical Information Manual AIM, and NTSB 830 for Private Pilot cross-country flight operations.

CONTENT

 Part 1
 Part 23
 Part 43
Part 61
Part 67
Part 91
 Part 141
NTSB 830
NASA Report
 AIM

COMPLETION STANDARDS



STAGE II GROUND LESSON 17 (2.0) AIRCRAFT SYSTEMS II

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge Ch. 2, 5, 6, 7, Aircraft POH, Aircraft MX Manual, AC 91-78

RECOMMENDED SEQUENCE

- 1. Lesson Introduction
- 2. Material Presentation and Discussion
- 3. Knowledge Review

LESSON OBJECTIVE

Students will be increase their knowledge of aircraft systems including normal and abnormal operation, failure indications, and basic trouble-shooting procedures, with emphasis on maintaining safe aircraft control.

POWERPLANT & RELATED SYSTEMS

CONTENT

Reciprocating Engine Operating
Principles
Induction Systems
Ignition System
Fuel, Oil and Hydraulic
Environmental
Propellers
Electrical
FLIGHT INSTRUMENTS
Pitot-Static System and Instruments
Vacuum System and Instruments
Magnetic Compass
Primary Flight Display
Multi-Function Display
AVIONICS
Ground-Based Navigation
Satellite-Based Navigation
Garmin 430
Transponder
Interface with Tablet/IPad

COMPLETION STANDARDS



STAGE II GROUND LESSON 18 (2.0) STAGE II EXAM

LESSON REFERENCES

Lesson reference material for lessons 13 – 19.

RECOMMENDED SEQUENCE

- 1. Testing
- 2. Critique

LESSON OBJECTIVE

Students will demonstrate comprehension of the material presented in lessons 1 through 11.

CONTENT

STAGE II EX	XAM
Human F	Factors and ADM II
Aircraft S	Systems II
FARs/AI	M/NTSB II
Weather	Theory, Patterns and Hazards
Obtainin	g WX Information II
Navigation	on and Flight Planning
Airports	and Airspace II, Radar and
ATC Se	± '

COMPLETION STANDARDS

This lesson and stage are complete when the student has completed the Stage II Exam with a minimum score of 80%.



STAGE II GROUND LESSON 19 (3.0) END OF COURSE FINAL EXAM

LESSON REFERENCES: As previously

assigned in lessons 1 - 18

RECOMMENDED SEQUENCE:

- 1. Testing
- 2. Critique

LESSON OBJECTIVE:

Students will demonstrate comprehension of the material presented in this course in preparation for the FAA Private Pilot Airmen Knowledge Test.

CONTENT:

Private Pilot Ground School Final Exam

COMPLETION STANDARDS

For Part 141 credit for completion of the course each student must complete the Private Pilot End of Course Final Exam with a minimum score of 80%.



PRIVATE PILOT-ASEL FLIGHT TRAINING SYLLABUS

COURSE OBJECTIVES

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

LESSON GRADING AND COMPLETION STANDARDS

Each flight lesson is graded across three (3) elements; Knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), Risk Management (defined by the applicant's ability to identify, assess and mitigate risks) and Skill (defined by the applicant's ability to apply the skill necessary to achieve the listed objective).

COMPLETION STANDARDS

The student must demonstrate through flight tests and school records that the aeronautical knowledge, risk management, and skill necessary to meet FAA requirements to obtain a private pilot certificate with an airplane category rating and single-engine land class rating have been met.

STAGE I OBJECTIVES

During this stage the student obtains the foundation for all future aviation training. The student will become familiar with the basic knowledge, aeronautical decision-making and risk management, and physical skills required to plan and conduct safe solo flights in the training airplane in the traffic pattern and local area using visual attitude reference.

STAGE I COMPLETION STANDARDS

At the completion of this stage, the student will demonstrate the acquisition of knowledge and proficiency in basic visual ground and flight maneuvers at a level that permits him/her to conduct solo aircraft operations in the traffic pattern and the local area of the home airport.

STAGE II OBJECTIVES

The student gains experience with solo operations, is introduced to VFR day and night cross-country flight planning and execution, navigation, flight by reference to instruments, emergency and abnormal procedures, and the National Airspace System.

STAGE II COMPLETION STANDARDS

This stage is complete when the student demonstrates through oral and flight tests and the knowledge, risk management, and skills necessary to conduct solo flights as Pilot In Command and dual VFR day and night cross-country flights as acting PIC, and complete the stage check at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.



STAGE III OBJECTIVES

The student will gain additional proficiency in local and cross-country solo operations in preparation for the end-of-course stage check and the FAA Practical Test.

STAGE III COMPLETION STANDARDS

This stage and the course are complete when the student demonstrates the knowledge, risk management, and flying skill necessary to conduct solo and dual day-VFR cross-country and local flights as Pilot In Command or acting PIC, and completes the stage check at a level that exceeds current FAA Private Pilot Airman Certification Standards.



PRIVATE PILOT FLIGHT COURSE TIME ALLOCATION TABLE

STAGE NO.	LESSON NO.	SCHD TIME	DUAL	solo	FLIGHT BRIEF	INST. TRAINI	AATD/ CPT	STAGE CHECK ORALFLIGHT		A/C TYPE	
						NG					
I	1	2.5	1.5		1.0					ASEL	
I	2	2.5			0.5		1.0/1.0			CPT/AATD	
I	3	2.0	1.5		0.5					ASEL	
I	4	2.0	1.5		0.5					ASEL	
I	5	1.5	1.0		0.5					ASEL	
I	6	2.0	1.5		0.5					ASEL	
I	7	2.5			0.5		1.0/1.0			CPT/AATD	
I	8	1.7	1.2		0.5					ASEL	
I	9	2.0	1.5		0.5					ASEL	
I	10	2.0	1.5		0.5					ASEL	
	GRD A	2.0								GROUND	
	GRD B	2.0								GROUND	
I	11	3.5	1.5		0.5			2.0	1.5	ASEL	
II	12	1.5	0.5	0.5	0.5					ASEL	
II	13	2.0	0.0	1.0	1.0					ASEL	
II	14	2.0	2.0		0.5	0.5	1.5/0			AATD	
	15A	2.0								GROUND	
II	15B	2.0	1.5		0.5	0.4				ASEL	
II	16	2.0 X-C	1.5		0.5	0.3				ASEL	
II	17	2.0 Night	1.5		0.5	0.3				ASEL	
II	18	3.2 NT x-c	2.2		1.0	0.3				ASEL	
II	19	2.5 D/N Opt	1.5		1.0	0.3				ASEL	
II	20	3.5	1.5		0.5	0.4		2.0	1.5	ASEL	
III	21	2.0	0.0	1.5	0.5					ASEL	
III	22	2.5 x-c	2.0		0.5	0.3				ASEL	
III	23	2.5 x-c	0.0	2.0	0.5					ASEL	
III	24	2.0	1.5		0.5	0.3				ASEL	
III	25	2.0	1.5		0.5					ASEL	
III	26	4.0	1.7		0.5	0.4		2.0	2.0	ASEL	
		Totals	31.6	5.0	15.0	3.5	3.5/2.0	6.0	5.0		
			N	MINIMU	M COURS	E HOURS	8				
		DUAL	solo	DUAL XC	DUAL NIGHT	INSTRUME AIRPL					
		31.6	5.0	5.7	3.0	3.0	0				

NOTE

INSTRUCTORS SHALL PROVIDE A FULL PRE AND POST-FLIGHT BRIEFING FOR EVERY FLIGHT TRAINING EVENT.

A MINIMUM 15 minutes pre-flight plus 15 minutes post-flight (.5 total) is expected.



STAGE I

STAGE I OBJECTIVE

During this stage the student obtains the foundation for all future aviation training. The student will become familiar with the basic knowledge, risk management, and skills required to plan and conduct safe solo flights in the training airplane in the traffic pattern and local area using visual attitude reference.

STAGE I COMPLETION STANDARD

At the completion of this stage, the student will demonstrate the acquisition of knowledge and proficiency in basic visual ground and flight maneuvers at a level that permits him/her to conduct solo aircraft operations in the traffic pattern and the local area of the home airport.



STAGE I FLIGHT LESSON 1 DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student is introduced to the training airplane, aeronautical decision making, and the knowledge, planning and procedures required for a safe flight. The instructor will demonstrate knowledge of basic aircraft ground and flight operation, human factors, and risk management during flight by visual reference. The student shall perform tasks as designated by the instructor.

CONTENT INTRODUCTION

INTRODUCTION
Human Factors
Preflight Assessment (Pilot Assmt)
Pilot Qualifications
Airworthiness Requirements
Operation of Flight Controls
Preflight Assessment (walk-around)
Engine Starting
Radio Communications
Cockpit Management
Taxiing
Before Takeoff Check
Normal Takeoff and Climb
Climbing and Descending
Straight-and-Level
Level Turns Right and Left
Speed Transitions in Level Flight
Coordination Exercise
Use of Trim
Normal Approach and Landing
Postflight Procedures

COMPLETION STANDARDS

The student will demonstrate and apply knowledge of basic aircraft ground and flight operation, ADM and human factors, and risk management during flight by visual reference. The student will conduct the takeoffs and landings with instructor assistance.

DATE://	DUAL: BRIEF:
STUDENT NAME AND SIG	GNATURE
CFI NAME, SIGNATURE,	CFI # & EXPIRATION DATE
ROUTE, LANDINGS & LO	OCATION(S)
Lesson Grade	



STAGE I FLIGHT LESSON 2 DUAL — PROCEDURES TRAINER AND AATD

A. Preflight Briefing	
B. Flight Lesson	
C. Post-flight Briefing and Critique	AATD: Before Start Flow/Checklist
The student will demonstrate knowledge of flows, checklists and procedures in the Procedures Trainer and subsequently in the controlled	 Engine Start Procedure/Checklist Taxi Flow/Checklist Before Takeoff Flow/Checklist Takeoff Flow/Checklist Climb Flow/Checklist Cruise Flow/Checklist
dynamic environment of the AATD.	Descent Flow/ChecklistBefore Landing Flow/Checklist
CONTENT REVIEW Preflight Assessment (walk-around) Engine Starting Radio Communications	After Landing Flow/Checklist Shutdown Flow/Checklist Radio/ATC Communications Taxi Procedures
Cockpit Management	COMPLETION STANDARDS: The student will display competency and proficiency in the performance of flows and
INTRODUCTION	checklists both in the Procedures Trainer and
PT:	the AATD. The student must demonstrate
Before Start Flow/Checklist	sufficient procedural knowledge and smooth
Engine Start Procedures/Checklist	performance in both environments so that
Taxi Flow/Checklist	operation in the aircraft will be efficient and
Before Takeoff Flow/Checklist	consistent.
Takeoff Flow/Checklist	
Climb Flow/Checklist	
Cruise Flow/Checklist Descent Flow/Checklist	DATE:// DUAL: BRIEF:
Before Landing Flow/Checklist After Landing Flow/Checklist	STUDENT NAME / SIGNATURE
Shutdown Flow/Checklist Pre-Maneuver Flow/Checklist	CFI NAME / SIGNATURE / CFI # & EXP.
	Lesson Grade



STAGE I FLIGHT LESSON 3 DUAL — LOCAL

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will increase knowledge, skill and risk-management ability for all tasks. The flight will include a minimum (4) takeoffs and landings. *Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.*

CONTENT REVIEW

IXIL V	117 44
]	Review of Previous Lesson
(Outcome/Goals
]	Preflight Assessment (Pilot Assmt)
	Airworthiness Requirements
]	Preflight Assessment
]	Engine Starting
]	Radio Communications
(Cockpit Management
]	Before Takeoff Check
]	Normal Takeoff and Climb
(Climbing and Descending
;	Straight-and-Level
]	Level Turns Right and Left
;	Speed Transitions in Level Flight
(Coordination Exercise
1	Use of Trim
]	Normal Approach and Landing
]	Postflight Procedures
1	Flows/Checklists/Briefings

INTRODUCTION

Obtaining a FSS Weather Briefing
National Airspace System
Performance and Limitations
Go/No Go Decision Making
Maneuvering During Slow Flight
Power Off Stall (Imminent & Full)
Departure/Power On Stall (Imm & Full)
Turning Stall (Imminent)
Traffic Patterns
Go-Around/Rejected Landing

COMPLETION STANDARDS

The student will display increased proficiency in aircraft ground and flight operations. Landings will be performed with instructor assistance as needed. The student will work towards maintaining altitude \pm 100' and heading +/- 10⁰ during flight, and demonstrate increased proficiency with flight by visual reference.

DATE://	DUAL: BRIEF:
STUDENT NAME / SIGN.	ATURE
CFI NAME / SIGNATURI	E / CFI # & EXP.
ROUTE OF FLIGHT	-
LANDINGS & LOCATIO	N:
Lesson Grade	



STAGE I FLIGHT LESSON 4 DUAL — LOCAL

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will be introduced to ground reference maneuvers They will increase knowledge, skill and risk-management ability for all tasks. The flight will include a minimum (4) takeoffs and landings. Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.

CONTENT PEVIEW

KE VIEVV
Review of Previous Lesson
Outcome/Goals
Obtaining a FSS Weather Briefing
Go/No Go Decision Making
PIC Authority and Responsibility
Maneuvering During Slow Flight
National Airspace System
Power Off Stall
Power On Stall
Turning Stall
Go-Around/Rejected Landing
Normal Landing
Traffic Patterns
Postflight Procedures
Flows/Checklists/Briefings
INTRODUCTION
Sys. and Eqpmt Malfunctions
Rectangular Course
Turns Around a Point
S-Turns
Forward Slip to a Landing

COMPLETION STANDARDS

The student will display increased knowledge and proficiency on all tasks and maneuvers by visual reference and perform take offs without instructor assistance, and landings with instructor assistance as necessary. Altitudes will be maintained +/- 100', headings +/- 100, and +10/-5 knots of specified airspeed.

DATE:/ DUAL: BRIEF:	
STUDENT NAME / SIGNATURE	
CFI NAME / SIGNATURE / CFI # & EXP.	
ROUTE OF FLIGHT	
LANDINGS & LOCATION:	
Lesson Grade	



STAGE I FLIGHT LESSON 5 DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will be introduced to steep turns and emergency procedures and increase knowledge, skill and risk-management ability for all tasks. The introduction of Emergency Approach and Landing will be introduced with an emphasis on energy management. Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.

CONTENT PEVIEW

Review of Previous Lesson
Outcome/Goals
Pilot Qualifications
Airworthiness Requirements
Performance and Limitations
Obtain a FSS Weather Briefing
Preflight Assessment
Normal and/or Crswd Take Off
Power-Off Stall (Full)
Power-On Stall (Full)
Sys. and Eqpmt Malfunctions (Fuel)
Normal and/or Crswd Landing
Post-flight Procedures
Flows/Checklists/Briefings
INTRODUCTION
Steep Turns
Emergency Procedures
Emerg. Appch and Ldg to Runway
Emergency Appch to Ldg (Simulated,
Off-Airport)
Crosswind Takeoff and Climb
Crosswind Approach and Landing

COMPLETION STANDARDS

The student will display increased knowledge and proficiency on all review tasks and maneuvers, have flown to and landed at an airport other than the home airport, and perform take offs and landings with minimal instructor assistance. Altitudes will be maintained +/- 100', headings +/- 10⁰, and +10/-5 knots of specified airspeed.

DATE://	DUAL: BRIEF:
STUDENT NAME / SIGNA	ATURE
CFI NAME / SIGNATURE	C / CFI # & EXP.
ROUTE OF FLIGHT	
LANDINGS & LOCATION	N:
Lesson Grade	



STAGE I FLIGHT LESSON 6 DUAL — LOCAL

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

This lesson will be a progress check of the student's skill set in performing the maneuvers required for solo flight. The student will conduct a minimum (3) takeoffs and landings. *Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.*

CONTENT

REVIEW
Ground lesson A complete
Maneuvering During Slow Flight
Power Off Stall (Imminent & Full)
Departure/Power On Stall (Imm & Full)
Turning Stall (Imminent)
Traffic Patterns
Go-Around/Rejected Landing
Sys. and Eqpmt Malfunctions
Rectangular Course
Turns Around a Point
S-Turns
Forward Slip to a Landing
Steep Turns
Emergency Procedures
Emerg. Appch and Ldg
Crosswind Takeoff and Climb
Crosswind Approach and Landing
Flows/Checklists/Briefings

COMPLETION STANDARDS

The student will demonstrate increased knowledge and proficiency in all tasks flying by visual reference, complete takeoffs, landings, and go-arounds **without instructor assistance**, and maintain altitudes +/- 100', headings +/- 10⁰, and airspeeds +/- 10 kts.

DATE://	DUAL: BRIEF:
STUDENT NAME / SIGNA	ATURE
CFI NAME / SIGNATURE	/ CFI # & EXP.
ROUTE OF FLIGHT	
LANDING & LOCATION:	<u></u>
Lesson Grade	



STAGE I FLIGHT LESSON 7 DUAL — PROCEDURES TRAINER AND AATD

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will demonstrate knowledge and improve proficiency in Emergency Procedures, using the Procedures Trainer, and the ability to enter the traffic pattern and deal with dynamic changes to traffic patterns at both controlled and uncontrolled airports, using the AATD.

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CONTENT
REVIEW – PT
C-172 FSM Emergency Procedures
C-172 FSM Abnormal Procedures
REVIEW AATD
Depart Class D airport for Practice Area
Collision Avoidance Procedures
Comms and ATC Light Signals
Awareness of Class D airspace
Selected Stage 1 Maneuvers (optional)
Selected Stage 1 Maneuvers (optional) Sys. and Eqpmt Malfunctions
Sys. and Eqpirit Manufections Ground Reference Maneuver
Stall (Power-Off or Power On)
Flows/Checklists/Briefings
INTRODUCTION – AATD
Diverting to another airport (with and
without GPS)
Entry to traffic pattern at uncontrolled
airport
Radio communications at Class D
airports
Radio communications at uncontrolled
airports
Runway change at Class D airport
Pattern entry change at Class D airport
Loss of comm. at a Class D airport

COMPLETION STANDARDS

The student will display competency and proficiency in the performance of flows and checklists both in the Procedures Trainer and the AATD. The student must demonstrate sufficient procedural knowledge and smooth performance in both environments so that operation in the aircraft will be efficient and consistent.

DATE://	DUAL: BRIEF:
STUDENT NAME / SIGNA	ATURE
CFI NAME / SIGNATURE	7 / CFI # & EXP.
ROUTE OF FLIGHT	
LANDINGS & LOCATION	N:
Lesson Grade	

In-Flight Partial Power Loss



STAGE I FLIGHT LESSON 8 DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will continue to increase knowledge, skill and risk management ability for all tasks. The flight will be to an airport other than the home airport with a landing. Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.

CONTENT PEVIEW

KŁ	VIEW
	Review of Previous Lesson
	Outcome/Goals
	Obtain a FSS Weather Briefing
	Performance and Limitations
	Preflight Assessment (Aircraft)
	Comms and Light Gun Signals
	Taxiing
	_ Traffic Patterns
	Use of Trim
	_ Maneuvering During Slow Flight
	Power Off Stall (Imminent & Full)
	Departure/Power On Stall (Imm & Full
	Diverting to another airport (with and
	without GPS)
	Entry to traffic pattern at uncontrolled
	airport
	Forward Slip to a Landing
	Go-Around/Rejected Landing
	Emergency Approach and Landing
	Postflight Procedures
	_Flows/Checklists/Briefings
IN'	ΓRODUCTION
	Secondary Stall (demonstration)
	Accelerated Stall (demonstration)
	Systems & Eqpmt Malfnctn (Trim)

COMPLETION STANDARDS

The student will have flown to an airport other than the home airport, demonstrate increased knowledge, skill and risk management for all listed tasks, conduct the listed tasks and a minimum (4) takeoffs and landings with no instructor assistance, maintaining altitude +/- 100', headings +/- 100', and airspeed +/- 10 knots. At least one full stop and taxi back must be conducted at an airport other than the home airport.

DATE://	DUAL: BRIEF:
STUDENT NAME / SIGNA	TURE
CFI NAME / SIGNATURE	/ CFI # & EXP.
ROUTE OF FLIGHT	
LANDING & LOCATION:	
Lesson Grade	



STAGE I FLIGHT LESSON 9 DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will continue to increase knowledge, proficiency and decision-making in the listed maneuvers and procedures. The flight will be to an airport other than the home airport with a landing. The preflight review shall consist of an assessment of the student's aircraft systems knowledge appropriate to pre-solo flight. Ground review will be conducted as necessary

CONTENT REVIEW

Review of Previous Lesson
Outcome/Goals (ground lesson B
complete)
Performance and Limitations
Preflight Assessment
Turns Around A Point
S-Turns
Emergency Appch to Ldg (Simulated,
Off-Airport)
In-flight power loss leading to diversion
Diverting to another airport (with and
without GPS)
Entry to traffic pattern at uncontrolled
airport
Go-Around/Rejected Landing
Postflight Procedures
Flows/Checklists/Briefings
_
INTEROPLICATION
INTRODUCTION

Crossed-Control Stall (demonstration)
Elevator Trim Stall (demonstration)
In-Flight Partial Power Loss (sim.)
No-Flap Approach and Landing

COMPLETION STANDARDS

The student will have flown to and landed at an airport other than the home airport, and demonstrate increased knowledge and proficiency in all listed tasks. The student will maintain altitude +/- 100', headings +/- 100', and airspeed +/- 10 knots, and be able to conduct all tasks with minimal instructor assistance.

DUAL: BRIEF:
NATURE
RE / CFI # & EXP.
_
N:
_
-



STAGE I FLIGHT LESSON 10 DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will review all listed tasks in preparation for the first stage check and solo flight in the traffic pattern.

CONTENT

REVIEW
Obtain a FSS Weather Briefing
Preflight Assessment
Cockpit Management
Engine Starting
Comms & Light Gun Signals
Taxiing
Before Takeoff Check
Normal Takeoff & Climb
Traffic Patterns
Use of Trim
Pilotage
Ground Reference Maneuvers
Maneuvering During Slow Flight
Power Off Stall
Power On Stall
Spin Awareness
In-Flight Partial Power Loss (sim.)
Systems and Eqpmt Malfunction
Emergency Approach and Landing
Normal Approach and Landing
Crosswind Approach and Landing
Go-Around/Rejected Landing
Postflight Procedures
Flows/Checklists/Briefings

COMPLETION STANDARDS

The student will demonstrate increased knowledge, skill, and risk management ability for all listed tasks, maintain altitude +/- 100', headings +/- 10⁰, and airspeed +/- 10 knots, and conduct all tasks without instructor assistance.

DATE://	DUAL: BRIEF:
STUDENT NAME / SIGN	NATURE
CFI NAME / SIGNATUR	E / CFI # & EXP.
ROUTE OF FLIGHT	_
LANDING & LOCATION	N:
Lesson Grade	-



STAGE I GROUND LESSON A GROUND LESSON

A. Ground Lesson

LESSON OBJECTIVE

The student and CFI will review knowledge items pertinent to Private Pilot pre-solo operations. *Ground Lesson* <u>A</u> *must be satisfactorily completed prior to the commencement of Lesson* 6.

CONTENT REVIEW

 V ALS V V
Human Factors
Pilot Qualifications
Airworthiness Requirements
Aircraft Weight and Balance
Performance and Limitation

COMPLETION STANDARDS

The student will display exhibit adequate knowledge of the covered subject areas sufficient for safe solo operations. The instructor will evaluate the student's knowledge with a quiz at the conclusion of the lesson.

DATE://	DUAL: BRIEF:
STUDENT NAME / SI	GNATURE
CFI NAME / SIGNATO	URE / CFI # & EXP.
CFI NAME / SIGNATO	URE / CFI # & EXP.



STAGE I GROUND LESSON B

A. Ground Lesson

LESSON OBJECTIVE

The student and CFI will review knowledge items pertinent to Private Pilot pre-solo operations. *Ground Lesson B must be satisfactorily completed prior to the commencement of Lesson 9.*

CONTENT	
REVIEW	
14 CFR Parts 6	1 and 91
Aircraft Systen	ıs
Aeronautical D	ecision Making
Interpreting Wo	eather Reports and
Forecasts	
National Airspa	ace System
Hazardous Wir	nd Shear Avoidance
Wake Turbuler	ice Avoidance
Pre-solo written	n exam reviewed, graded
and corrected t	o 100%

COMPLETION STANDARDS

The student will display exhibit adequate knowledge of the covered subject areas sufficient for safe solo operations. The instructor will evaluate the student's knowledge with a quiz at the conclusion of the lesson.

DATE://	DUAL: BRIEF:
STUDENT NAME / SIG	NATURE
CFI NAME / SIGNATURE / CFI # & EXP.	
Lesson Grade	_



STAGE I FLIGHT LESSON 11, STAGE CHECK DUAL — LOCAL (Optional - TO AN AIRPORT)

A. Oral Exam B. Pre-Flight Briefing and Flight Exam C. Post-flight Briefing and Evaluation LESSON OBJECTIVE The Chief Flight Instructor or designee will evaluate the student's ability to demonstrate the aeronautical decision-making, knowledge and skill required to safely operate the airplane in solo flight in the local area and traffic pattern.	 Power On Stall Spin Awareness In-Flight Partial Power Loss (sim.) Systems and Equipment Malfunction Emergency Approach and Landing Normal Approach and Landing Crosswind Approach and Landing Go-Around/Rejected Landing Postflight Procedures Flows/Checklists/Briefings
CONTENT ORAL Pilot Qualifications Airworthiness Requirements Performance and Limitations Aircraft Weight and Balance National Airspace System Operation of Systems Human Factors	COMPLETION STANDARDS The student will demonstrate the aeronautical decision-making, knowledge and skill required to safely operate the airplane in solo flight in the local area and traffic pattern while acting as Pilot-In-Command. Altitude will be maintained +/-100', headings +/- 100', and airspeeds +/- 5 knots.
FLIGHT Obtain a FSS Weather Briefing Preflight Assessment Cockpit Management Engine Starting Comms & Light Gun Signals Taxiing Before Takeoff Check Normal Takeoff & Climb Crosswind Takeoff & Climb Traffic Patterns Use of Trim Pilotage	DATE://_ DUAL: BRIEF: STUDENT NAME / SIGNATURE CFI NAME / SIGNATURE / CFI # & EXP. ROUTE OF FLIGHT # LANDINGS & LOCATION: Lesson Grade
Ground Reference ManeuversManeuvering During Slow Flight	

___ Power Off Stall



STAGE II

STAGE II OBJECTIVES

The student gains experience with solo operations, is introduced to VFR day and night cross-country flight planning and execution, navigation, flight by reference to instruments, emergency and abnormal procedures.

STAGE II COMPLETION STANDARDS

This stage is complete when the student demonstrates through oral and flight tests the knowledge, risk management, and skills necessary to conduct solo flights as Pilot In Command and dual VFR day and night cross-country flights as acting PIC, and complete the stage check at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.



STAGE II FLIGHT LESSON 12 DUAL and SOLO — LOCAL

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will conduct her/his final practice flight before flying solo in the airport traffic pattern. Following the dual portion of the lesson, the instructor will leave the aircraft and supervise the student as he/she conducts the first solo flight.

CONTENT REVIEW DUAL

REVIEW DUAL
Review of Previous Lesson
Outcome/Goals
Preflight Assessment
Pilot Qualifications
Obtain a FSS Weather Briefing
Taxiing
Normal and X-wind T.O. and Climb
Traffic Patterns
Go-Around/Rejected Landing
Normal and X-wind Appch & Landing
INTRODUCTION: FIRST SOLO
Taxiing
Normal and X-wind Takeoff and Climb
Traffic Patterns
Normal and X-wind Appch & Landing
Postflight Procedures

COMPLETION STANDARDS

This lesson is complete when the student demonstrates the knowledge, risk management and skill required to safely conduct all listed tasks without instructor assistance. During solo flight, the student will conduct a minimum three (3) full-stop taxi-back landings in the traffic pattern at an airport.

DATE:	DUAL:	SOLO :	BRIEF:
STUDENT N	AME / SIGNAT	URE	
CFI NAME /	SIGNATURE /	CFI # & EXP.	
ROUTE OF	FLIGHT		
# LANDING	S & LOCATION	N:	
Lesson G	rade		



STAGE II FLIGHT LESSON 13 SOLO — LOCAL

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE:

The student will safely conduct a solo flight from the home airport and practice the listed maneuvers to increase proficiency and confidence. All in-flight maneuvers will be conducted at an altitude that permits recovery above 3000' AGL. The student shall accumulate no less than 1.0 solo flight time on this flight.

CONTENT PRE-FLIGHT BRIEFING

PRE-FLIGHT BRIEF.	ING
Review of Previous	Lesson
Outcome/Goals	
Aeronautical Decisi	on Making
Obtaining a FSS We	eather Briefing
Weight and Balance	2
Performance and Li	mitations
REVIEW	
Preflight Inspection	1
ATC Communication	
Taxiing	
Before Takeoff Che	eck
Normal Takeoff and	d Climb
Traffic Patterns	
Normal Approach a	nd Landing
Postflight Procedure	es
INTRODUCTION SO	LO
Go-Around/Rejecte	d Landing
Maneuvering Durin	g Slow Flight
Power Off Stall (Im	m.)
Power On Stall (Im:	m.)

COMPLETION STANDARDS

The student will have safely conducted a solo flight within 25 NM from the home airport, and increased his/her proficiency and confidence while conducting the listed tasks. All in-flight maneuvers will be conducted at an altitude that permits recovery above 3000' AGL. The student shall accumulate not less than 1.0 solo flight time.

DATE://	SOLO: BRIEF:
STUDENT NAME / SIGN	NATURE
CFI NAME / SIGNATUR	RE / CFI # & EXP.
ROUTE OF FLIGHT	_
# LANDINGS & LOCAT	TION:
Lesson Grade	_

_ Steep Turns _ Pilotage



STAGE II FLIGHT LESSON 14 DUAL - AATD(SIMULATED IFR AND NIGHT)

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will expand experience with flight by reference to instruments, be introduced to similarities between night and instrument flight conditions, and be introduced to emergency procedures. Students are to obtain a minimum 0.5 hours of simulated flight by reference to instruments.

CONTENT REVIEW

Review of Previous Lesson
Outcome/Goals
Cockpit Management

INT	RODUCTION (ALL IR)
	Straight and Level Flight
	Turns to Headings
	Recovery from Unusual Flight Attitudes
Simi	ulated Instrument Flying Conditions
	Determining Aircraft Position
	VOR Orientation and Tracking
	GPS Orientation and Tracking
	CFIT Avoidance: Climbs & Descents
	Radio Comms, Nav Systems, and Radar
	Svcs

Simulated Night Flying Conditions

 Night Prep	aratio	1
 Straight an	d Leve	el Flight

Turns to Heading	S
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Descent

	-			
Airport,	Runway	and 7	Γaxiwav	Lighting
 P 010,				

Emergency Operations
Oil Pressure/Temp Warning
Engine Failure During Takeof
Alternator Failure
Vacuum System Failure
Low Fuel Warning

COMPLETION STANDARDS

The student will demonstrate the knowledge, risk management, and skill to determine aircraft orientation using navigation systems and radar services, demonstrate aircraft control by reference to instruments, conduct proper procedures when faced with various emergency situations, maintain altitude +/-200', headings \pm 200, and airspeeds \pm 10 knots. The student will obtain a minimum 0.5 hours of training in flight by reference to instruments.

DATE:// DUAL AATD: IR:BRIEF:
STUDENT NAME / SIGNATURE
CFI NAME / SIGNATURE / CFI # & EXP.
ROUTE OF FLIGHT
Lesson Grade



STAGE II FLIGHT LESSON 15A GROUND LESSON

A. Ground Lesson

LESSON OBJECTIVE

The student will learn the proper procedures and techniques for planning a safe VFR cross-country flight.

CONTE	INT
REVIE	W
Rev	iew of Previous Lesson
Out	come/Goals
Obta	ain a FSS Weather Briefing
Purp	pose of IR training for PVT pilots
Inst	rument Scan and Interpretation
Pref	light Assessment (Envir. Factors)
INTRO	DUCTION
Navi	gation Log Preparation
Rad	io Comms, Nav Sys, & Radar Svcs
Use	of Aircraft Performance Charts
Fligh	nt Planning Considerations
Filin	g the Flight Plan
Cros	s Country Departure Procedures
Oper	ning and Closing Flight Plan

____ Use of Departure and Approach Control

___ Dead Reckoning Lost Procedures

____ National Airspace System

COMPLETION STANDARDS

The student will successfully complete the planning to complete the VFR cross-country required by Lesson 16.

DATE:	DUAL:	IR:	BRIEF:
STUDENT NAME /	SIGNATURE	Ε	
CFI NAME / SIGNA	ATURE / CFI	# & EXP.	
Lesson Grade			



STAGE II FLIGHT LESSON 15B DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will review previously learned material, be introduced to VFR navigation and flight by reference to instruments in the airplane, with special emphasis placed on proper pre-flight planning, cockpit management, and diverting to an alternate airport. The flight will be to a landing at an airport other than the home airport. The student shall receive a minimum 0.3 hours of instrument training during the flight.

CONTENT REVIEW

KE VIE VV	
Obtain a FSS Weather Briefin	g
Purpose of IR training for PV	_
Instrument Scan and Interpreta	ation
Preflight Assessment (Envir. I	Factors)
Emergency Procedures on Tak	eoff
Use of Departure and Approach (Control
Pilotage	
Dead Reckoning	
Diversion to an Alternate Airp	ort
Lost Procedures	
Postflight Procedures	
INTRODUCTION	
Cross-Country Departure to 1st Cl	heckpoint
Straight and Level Flight (IR)	
Turns to Headings (IR)	
Recovery from Unusual Attitu	des (IR)
Emergency Descent	
Short Field Takeoff and Climb)
Short Field Approach and Lan	ding
Soft Field Takeoff and Climb	-

Soft Field Approach and Landing

COMPLETION STANDARDS

The student will demonstrate the knowledge, risk management, and skill to describe conduct all lesson tasks. During VFR flight the student will maintain altitudes +/-100', headings +/-100, and airspeeds +/-100 knots. During IR flight the student will maintain altitudes +/-200', headings +/-200, and airspeeds +/-100 knots.

DATE: BRIEF:
STUDENT NAME / SIGNATURE
CFI NAME / SIGNATURE / CFI # & EXP.
ROUTE OF FLIGHT
LANDINGS & LOCATION:
Lesson Grade



STAGE II FLIGHT LESSON 16 DUAL – DAY- CROSS COUNTRY

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

During this lesson the student will combine previously learned knowledge and skills to safely conduct a VFR Day cross-country flight. The student will plan and conduct a cross-country flight to three (3) airports with the first leg of not less than 50 NM from the home airport.

CONTENT

KE'	VIEW
	Review of Previous Lesson
	Outcome/Goals
	Obtain a FSS Weather Briefing
	Human Factors
	National Airspace System
	Preflight Assessment (Ext. Press.)
	Short-Field Takeoff and Climb
	Navigation Log Preparation
	Flight Planning Considerations
	Departure
	Opening and Closing Flight Plan
	Recovery From Unusual Attitudes (IR)
	Emergency Approach and Landing (Sim)
	Emergency Equip. and Survival Gear
	Pilotage
	Dead Reckoning
	Lost Procedures
	Radio Comms, Nav. Sys and Radar Svcs
	No-Flap Landing
	Go-Around/Rejected Landing
INT	TRODUCTION
	Estimated Groundspeed and ETA
	Unfamiliar Airport Operations
	Diversion to/Landing at an Alternate
	Landing Not Less Than 50 NM from
	Departure Airport

COMPLETION STANDARDS

The student will demonstrate correct techniques and procedures for safely conducting a day VFR cross-country flight. The student will demonstrate single-pilot resource management and improved ADM. Altitudes will be maintained +/- 100', headings +/- 100', and airspeeds +/-5 knots.

DATE://_ DUAL: IR: BRIEF:
STUDENT NAME / SIGNATURE
CFI NAME / SIGNATURE / CFI # & EXP.
ROUTE OF FLIGHT
LANDINGS & LOCATION:
Lesson Grade



STAGE II FLIGHT LESSON 17 DUAL-NIGHT-LOCAL TO AN ARPT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE:

The student will review and increase knowledge, risk management and skill with night flight operations, with emphasis on proper preflight planning, increased use of navigation equipment and ATC resources, CFIT avoidance, and human factors. The student will obtain a minimum 1.2 hours of night aeronautical experience. The lesson must include a minimum of 1.0 ground briefing time in preparation for Night Operations

CONTENT: REVIEW

	Review of Previous Lesson
	Outcome/Goals
	Night Flight Preparation
	Personal Equipment
	Obtain a FSS Weather Briefing
	Taxiing
	Use of Obstacle Departure Procedures
	Human Factors (Spatial Dis/Ldg Illsns)
INT	TRODUCTION (NIGHT)
	Emergency Equip. and Survival Gear
	Preflight Assessment
	Cockpit Management
	Before Takeoff Check
	Normal Takeoff and Climb
	VOR Orientation and Tracking
	GPS Orientation and Tracking
	Power-Off Stall (Imminent)
	Power-On Stall (Imminent)
	Pilotage
	Dead Reckoning
	Diversion to an Alternate
	Lost Procedures

 Emergency Procedures
 Basic Instrument Maneuvers (IR)
 Recovery From Un. Attitudes (IR)
 Emergency Appch and Ldg (Sim)
 Go-Around/Rejected Landing
 Normal Approach and Landing
 Normal Approach and Landing
(Without Landing Light)

COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill for all listed tasks, complete a minimum of five (5) takeoffs and landings from the traffic pattern, and maintain altitudes +/- 100', headings +/- 10⁰, and airspeeds +/-5 knots. The student will obtain a minimum 1.2 hours of night aeronautical experience.

DATE:/ DUAL:	IR: BRIEF:
STUDENT NAME / SIGNATU	RE
CFI NAME / SIGNATURE / CI	FI # & EXP.
DOLUME OF ELICITA	
ROUTE OF FLIGHT	NIGHT
# LANDINGS & LOCATION:_	



STAGE II FLIGHT LESSON 18 DUAL-NIGHT-CROSS COUNTRY

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

During this lesson the student will combine previously learned knowledge and skills to safely conduct a VFR night cross-country flight. The flight will be conducted to three (3) airports with the first leg at least 50 NM from the departure airport, and a total distance of more than 100 NM for the entire flight.

CONTENT REVIEW

COMPLETION STANDARDS

The student will safely conduct a night VFR cross-country flight, and a minimum five (5) night takeoffs and landings as PIC while maintaining altitudes +/- 100', headings +/- 100', and airspeeds +/-5 knots. Minimum of 0.3 simulated instrument time. NOTE: Conduct IR time AFTER completing all VFR legs. Ensure the student has completed a minimum 10 night takeoffs & landings from the traffic pattern, 3.0 hours dual cross-country, and 3.0 hours night flight.

DATE: DUAL	: IR: B	RIEF:
STUDENT NAME / SIGN.	ATURE	
CFI NAME / SIGNATURI	E / CFI # & EXP.	
ROUTE OF FLIGHT	X-COUNTRY	NIGHT
# LANDINGS & LOCATI	ON:	
Lesson Grade:	_	



STAGE II FLIGHT LESSON 19 DUAL — LOCAL (DAY/NIGHT OPTION)

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

In preparation for the upcoming stage check the student will demonstrate proficiency at a level that meets current FAA Airman Certification Standards. The student will demonstrate the ability to safely and competently plan and execute a cross-country VFR flight without instructor assistance. NOTE: The FAA Private Pilot Knowledge Test must be completed before the student is eligible for the stage II check.

CONTENT REVIEW

REVIEW
Pilot Qualifications
Airworthiness Requirements
Performance and Limitations
Aircraft Weight and Balance
National Airspace System
Cross-Country Flight Planning
Weather Information
Operation of Systems
Human Factors
Night Preparation
Preflight Assessment
Cockpit Management
Comms & Light Gun Signals
Taxiing
Before Takeoff Check
Normal Takeoff & Climb
Short Field Takeoff & Climb
Soft Field Takeoff & Climb
Pilotage and Dead Reckoning
Traffic Patterns
Spin Awareness
Basic Instrument Maneuvers (IR)
Diversion

Nav. Systems and Radar Svcs (VR/IR)
Lost Procedures
Emergency Descent
Emergency Equip. & Survival Gear
Systems and Equpmt. Malfunction
Emergency Approach and Landing
Forward Slip to a Landing
Normal Approach and Landing
Short Field Approach and Landing
Soft Field Approach and Landing
No-Flap Landing
Go-Around/Rejected Landing
Postflight Procedures

COMPLETION STANDARDS

The student demonstrates the ability to safely conduct a solo cross-country flight. Knowledge, flight proficiency and aeronautical decision-making is demonstrated at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.

DATE: BRIEF:
STUDENT NAME / SIGNATURE
CFI NAME / SIGNATURE / CFI # & EXP.
ROUTE OF FLIGHT
LANDINGS & LOCATION:
Lesson Grade



STAGE II FLIGHT LESSON 20, STAGE CHECK DUAL — LOCAL TO AN AIRPORT

- A. Oral Exam
- B. Pre-Flight Briefing and Flight
- C. Post-flight Briefing and Evaluation

LESSON OBJECTIVE

The Chief Flight Instructor or designee will evaluate the student's ability to demonstrate the knowledge, risk management ability and skill required to safely conduct crosscountry flight as Pilot In Command.

CON	TENT
ORA	
P	Pilot Qualifications
A	Airworthiness Requirements
P	Performance and Limitations
A	Aircraft Weight and Balance
N	Vational Airspace System
(Cross-Country Flight Planning
V	Veather Information
(Operation of Systems
F	Human Factors
N	light Preparation
FLIG	
F	Preflight Assessment
	Poolsnit Monogomont
(Comms & Light Gun Signals Caxiing
T	Caxiing
E	Before Takeoff Check
N	Jormal Takeoff & Climb
S	Short Field Takeoff & Climb
P	Pilotage and Dead Reckoning
S	pin Awareness
Е	Basic Instrument Maneuvers (IR)
[Diversion
N	Vav. Systems and Radar Sycs (VR/IR)
L	Lost Procedures
E	Emergency Descent
E	Emergency Equip. & Survival Gear
S	ystems and Equpmt. Malfunction

Emergency Approach and Landing

Traffic Patterns	
Forward Slip to a Landing	
Normal Approach and Landing	g
Short Field Approach and Land	ding
No-Flap Approach and Landin	ıg
Go-Around/Rejected Landing	
Postflight Procedures	

COMPLETION STANDARDS

This lesson is complete when the student demonstrates the demonstrate the knowledge, risk management ability and skill required to safely conduct crosscountry flight as Pilot In Command at a level that meets or exceeds current FAA Private Pilot Airman Certification Standard.

DATE:	DUAL:	IR:	_ BRIEF:
STUDENT NAM	IE / SIGNATU	RE	
CFI NAME / SIG	GNATURE / C	FI # & EX	P.
ROUTE OF FLI	GHT		
# LANDINGS &	LOCATION:		
Lesson Gra	de		



STAGE III

STAGE III OBJECTIVES

During this stage, the student will gain additional proficiency in local and cross-country solo operations in preparation for the end-of-course stage check and the FAA Practical Test.

STAGE III COMPLETION STANDARDS

This stage and the course will be complete when the student completes the end-of-course stage check by exhibiting the knowledge, risk management and flying skills at a level that exceeds current FAA Private Pilot Airman Certification Standards.



STAGE III FLIGHT LESSON 21 SOLO — LOCAL (25nm OPTION)

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will practice the listed tasks in preparation for the solo cross-country flight. Emphasis is placed on single pilot resource management and cockpit management while conducting the flight as Pilot In Command.

NOTE: To exercise the 25NM solo option to land at another airport, the CFI must ensure that ALL requirements of 61.93(b) have been met.

CONTENT REVIEW

REVIEW
Review of Previous Lesson
Outcome/Goals
Traffic Patterns
Comms and ATC Light Signals
Emergency Procedures
Cockpit Resource Management
Single Pilot Resource Management
Preflight Assessment
Short-Field Takeoff and Climb
Soft-Field Takeoff and Climb
Traffic Pattern Operations
Maneuvering During Slow Flight
Steep Turns
Power-Off Stall (Imm. & Full)
Power-On Stall (Imm. & Full)
Turning Stall (Imm. & Full)
Go-Around/Rejected Landing
Short-Field Approach and Landing
Soft-Field Approach and Landing

COMPLETION STANDARDS

This lesson is complete when the student demonstrates aeronautical decision making, single pilot resource management, proper navigation procedures, and safe execution of traffic pattern entries and exits during solo flight.

DATE: SOLO: BRIEF:
STUDENT NAME / SIGNATURE
CFI NAME / SIGNATURE / CFI # & EXP.
ROUTE OF FLIGHT
LANDINGS & LOCATION:
Lesson Grade

___ Postflight Procedures



STAGE III FLIGHT LESSON 22 DUAL – CROSS COUNTRY

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Prefli	σht.	Kr1e	tino
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- A. Flight Lesson
- B. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will demonstrate the knowledge, risk management and skill required to plan and safely conduct a cross-country flight as PIC. The flight must include a landing at three (3) different airports, with one leg of the route flown to an airport not less than 50 NM from the departure airport.

CONTENT

KE VIE W
Review of Previous Lesson
Outcome/Goals
Pilot Qualifications
Airworthiness Requirements
Performance and Limitations
Aircraft Weight and Balance
National Airspace System
Cross-Country Flight Planning
Weather Information
Operation of Systems
Human Factors
Preflight Assessment
Cockpit Management
Comms & Light Gun Signals
Taxiing
Before Takeoff Check
Normal Takeoff & Climb
Short Field Takeoff & Climb
Pilotage and Dead Reckoning
Traffic Patterns
Spin Awareness
Basic Instrument Maneuvers (IR)
Diversion
Nav. Systems and Radar Svcs (VR/IR)
Lost Procedures

Emergency Descent
Emergency Equip. & Survival Gear
Systems and Equpmt. Malfunction
Emergency Approach and Landing
Forward Slip to a Landing
Normal Approach and Landing
Short Field Approach and Landing
Go-Around/Rejected Landing
Postflight Procedures

COMPLETION STANDARDS

The student will have demonstrated the knowledge, flight proficiency and aeronautical decision making required to plan and safely conduct a cross-country flight as PIC at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.

DATE://_ DUAL: II	R: BRIEF:
STUDENT NAME / SIGNATURE	
CFI NAME / SIGNATURE / CFI #	& EXP.
ROUTE OF FLIGHT	X-COUNTRY
# LANDINGS & LOCATION:	
Lesson Grade	



STAGE III FLIGHT LESSON 23 SOLO — CROSS COUNTRY

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

During this lesson the student will execute sound ADM and flying skills to conduct a solo cross-country flight. The route must be at least 100 NM and include a landing at three (3) different airports, with one leg of the route not less than 50 NM between takeoff and landing locations. The student shall complete the navigation log for the post-flight briefing and the navigation log shall be kept in the student's training folder.

CONTENT

REVIEW

Pilot Qualifications
Airworthiness Requirements
Performance and Limitations
Aircraft Weight and Balance
Cross-Country Flight Planning
Weather Information
Human Factors
Preflight Assessment
Cockpit Management
Engine Starting
Taxiing
Before Takeoff Check
Normal Takeoff & Climb
Short Field Takeoff & Climb
Pilotage and Dead Reckoning
Traffic Patterns
Nav. Systems and Radar Svcs
Emergency Equip. & Survival Gear
Forward Slip to a Landing
Normal Approach and Landing
Short Field Approach and Landing
Postflight Procedures

COMPLETION STANDARDS

The lesson is complete when the student completes the flight at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards. Upon arrival at the home airport the instructor and student shall review the completed navigation log during the post flight briefing and the navigation log shall be inserted in the student's training folder.

DATE://	SOLO: BRIEF:	
STUDENT NAME / SIGNATURE		
CFI NAME / SIGNATURE / CFI # & EXP.		
ROUTE OF FLIGHT	X-COUNTRY	
# LANDINGS & LOCATION:		
Lesson Grade		



STAGE III FLIGHT LESSON 24 DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will practice the listed tasks and demonstrate aeronautical knowledge, flight proficiency and decision making skills at a level that exceeds current FAA Private Pilot Airman Certification Standards.

CONTENT

COI	
REVI	EW
	lot Qualifications
A	irworthiness Requirements
P	erformance and Limitations
A	ircraft Weight and Balance
N	ational Airspace System
W	Veather Information
	peration of Systems
H	uman Factors
P	reflight Assessment
C	ockpit Management
C	omms & Light Gun Signals
T	axiing
В	efore Takeoff Check
N	ormal Takeoff & Climb
Sl	nort Field Takeoff & Climb
	oft Field Takeoff & Climb
B	asic Instrument Maneuvers (IR)
	av. Systems and Radar Svcs (VR/IR)
	round Reference Maneuvers (All)
	orward Slip to a Landing
	ormal Approach and Landing
	hort Field Approach and Landing
S	oft Field Approach and Landing
N	o-Flap Approach and Landing
	o-Around/Rejected Landing
	ostflight Procedures

COMPLETION STANDARDS

The lesson is complete when the student is able to demonstrate aeronautical knowledge, risk management and flying skills at a level that exceeds current FAA Private Pilot Airman Certification Standards.

DATE:/ DUAL: IR: BRIEF:		
STUDENT NAME / SIGNATURE		
CFI NAME / SIGNATURE / CFI # & EXP.		
ROUTE OF FLIGHT		
# LANDINGS & LOCATION:		
Lesson Grade		



STAGE III FLIGHT LESSON 25 DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

This is the final lesson prior to the end-ofcourse stage check. The student will demonstrate aeronautical knowledge, flight proficiency and decision making at a level that exceeds current FAA Private Pilot Airman Certification Standards.

CONTENT

0011	
REVI	EW
C	ertificates and Documents
A	irworthiness Requirements
H	uman Factors
Pı	reflight Assessment
Та	axiing
Be	efore Takeoff Check
St	eep Turns
Po	ower-On Stall (Imminent & Full)
Po	ower-Off Stall (Imminent & Full)
S1	ow Flight
S _I	oin Awareness
N	avigation Systems and Radar Svcs
	nergency Descent
	mergency Approach and Ldg (Sim)
	nort-Field Approach and Landing
Sc	oft-Field Approach and Landing
	ostflight Procedures

COMPLETION STANDARDS

The lesson is complete when the student is able to conduct all listed tasks at a level that *exceeds* current FAA Private Pilot Airman Certification Standards.

DATE: BRIEF:	
STUDENT NAME / SIGNATURE	
CFI NAME / SIGNATURE / CFI # & EXP.	
ROUTE OF FLIGHT	
# LANDINGS & LOCATION:	_
Lesson Grade	



STAGE III FLIGHT LESSON 26, EOC STAGE CHECK DUAL-LOCAL TO AN AIRPORT

A. Oral Exam	Basic Instrument Maneuvers (IR)
B. Pre-Flight Briefing and Flight	Steep Turns
C. Post-flight Briefing and Evaluation	Diversion
	Nav. Systems and Radar Services
LESSON OBJECTIVE	(VR/IR)
This lesson is the End-of Course test	Lost Procedures
conducted by the Chief Flight Instructor or	Emergency Descent
designee. The student will demonstrate	Emergency Equip. & Survival Gear
aeronautical knowledge, flight proficiency	Systems and Equpmt. Malfunction
and decision making at a level that exceeds	Emergency Approach and Landing
current FAA Private Pilot Airman	Forward Slip to a Landing
Certification Standard.	Normal Approach and Landing
	Soft Field Approach and Landing
CONTENT	Short Field Approach and Landing
ORAL	Go-Around/Rejected Landing
Pilot Qualifications	Postflight Procedures
Airworthiness Requirements	
Performance and Limitations	COMPLETION STANDARDS
Aircraft Weight and Balance	This lesson is complete when the student
National Airspace System	demonstrates knowledge, flight proficiency
Cross-Country Flight Planning	and aeronautical decision making skill at a
Weather Information	level that exceeds current FAA Private Pilot
Operation of Systems	Airman Certification Standard.
Human Factors	
Night Preparation	
	DATE:// DUAL: IR: BRIEF:
FLIGHT	DATE DUAL IR BRIEF
Preflight Assessment	STUDENT NAME / SIGNATURE
Cockpit Management	STUDENT NAME / SIGNATURE
Comms & Light Gun Signals	
Taxiing	CFI NAME / SIGNATURE / CFI # & EXP.
Before Takeoff Check	
Normal Takeoff & Climb	ROUTE OF FLIGHT
Soft Field Takeoff and Climb	# LANDINGS & LOCATION:
Short Field Takeoff & Climb	
Pilotage and Dead Reckoning	Lesson Grade
Traffic Patterns	
Ground Reference Maneuvers	
Maneuvering During Slow Flight	
Power Off Stall (Imminent or Full)	
Power On Stall (Imminent or Full)	
Spin Awareness	