

PRIVATE PILOT

SINGLE ENGINE AIRPLANE

Hursa Corp x Lucky Aviation 2021

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Stage One

Overview

Objectives

Completion Standards

Introduction to Flight

Induction to Flight

Stage 1 Lesson 1

Dual Flight

Lesson Time 1.0

Objectives

Introduce the student flight.

SBT

Plan a costal sight-seeing flight choosing a land mark to orbit.

Tasks

Pre Flight

Use of Checklists

Positive Exchange of Flight Controls

Taxiing

Normal Takeoff

Climbs

Straight and Level

Turns

Decents

Normal / Crosswind Landing

Post Flight

Completion Standards

The student has been introduced to and completed the tasks of the lesson.

Induction to Flight
Stage 1 Lesson 2
Ground Lesson
Lesson Time 4.0

Induction to Flight

Objectives

This lesson will serve as the student's initial ground briefing on Fundamentals of Flight, Pro Standards Flight Operations, Pro Standards checklists, and Pro Standards Procedures. Additionally, the instructor will introduce the aeronautical knowledge elements required prior to initial solo referencing applicable POH, the AFH, and the PHAK.

SBT

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Tasks

Introduction to Pro Standards Training Program
Course Overview
Required Course Materials
Course Policies
Professionalism
Human Factors
ADM
SRM
CRM
TEM
Local Operations
Practice Area Review
Collision Hazards
Aviation Security
Runway Incursion Avoidance
National Airspace System
Operation of Systems
Flight Deck Management
Control and Performance Method Overview
Straight-and-Level Flight (Visual Reference)
Constant Airspeed Climbs (Visual Reference)
Constant Airspeed Descents (Visual Reference)
Turns to Headings (Visual Reference)
Climbing Turns (Visual Reference)
Descending Turns (Visual Reference)

Completion Standards

The student demonstrates an understanding of the knowledge elements required for Fundamentals of Flight, Safety of Flight Items, and the required aeronautical knowledge elements relating to Operation of Systems and National Airspace system. The lesson will be complete once the instructor has introduced all the required Tasks and subsequent elements to the student.

Fundamentals of Flight

Fundamentals of Flight
Stage 1 Lesson 3
Procedures Training
Lesson Time 1.0

Objectives

The instructor will introduce the student to the required callouts, flows, and checklist Items in accordance with the Pro Standards' SOPA. The instructor's primary emphasis will be to facilitate the student's understanding of the checklists and flow procedures. The student will not be expected to perform the flows in accordance with the Pro Standards Checklist Philosophy in this lesson.

SBT

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Tasks

Pro Standards Checklist Philosophy (SOPA)
Initial Aircraft Acceptance (SOPA)
Standard Callouts (SOPA)
Use of Checklists
Positive Exchange of Flight Controls
Before Start (SOPA)
Engine Priming (SOPA)
Engine Starting (SOPA)
Before Taxi (SOPA)
Before Takeoff (SOPA)
Takeoff (SOPA)
Climb (SOPA)
Cruise (SOPA)
Pre-Maneuver Flow (SOPA)
Decent (SOPA)
After Landing (SOPA)
Shutdown/Secure (SOPA)
Flight Deck Management
Taxiing

Completion Standards

The student demonstrates an understanding of the knowledge elements required for checklist philosophy, use of flows, cockpit procedures, safety of flight items, and the required aeronautical knowledge elements relating to operation of systems. The lesson will be complete

once the instructor has introduced all the required Tasks and subsequent elements to the student.

Fundamentals of Flight
Stage 1 Lesson 4
Dual Flight
Lesson Time 2.0

Objectives

This lesson will serve as the student's first opportunity to practice the skills and knowledge acquired in previous lessons relating to Fundamentals of Flight, callouts, flows, checklists and procedures. Additionally, the instructor will discuss with the student elements relating to Preflight Assessment to include Weather Information, Initial Aircraft Acceptance, and Performance and Limitations.

SBT



TASKS

Initial aircraft acceptance
Standard Callouts (SOPA)
Use of Checklists
Positive Exchange of Flight Controls
Collision Hazards
Runway Incursion Avoidance
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Control and Performance Method Overview
Coordination Demonstration (Standardization Manual)
Adverse Yaw Demonstration (Standardization Manual)
Lateral Stability Demonstration (Standardization Manual)
Straight-and-Level Flight (Visual Reference)
Constant Airspeed Climbs (Visual Reference)
Constant Airspeed Descents (Visual Reference)
Turns to Headings (Visual Reference)
Climbing Turns (Visual Reference)
Descending Turns (Visual Reference)

After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

The student demonstrates the aeronautical knowledge and skill required to perform the tasks related to Fundamentals of Flight. The lesson will be complete once the instructor has introduced all the required Tasks and subsequent elements to the student.

Fundamentals of Flight
Stage 1 Lesson 5
Ground Lesson
Lesson Time 2.0

Fundamentals of Flight

OBJECTIVES

Exhibit knowledge of the principles of aerodynamics, and stall awareness, spin entry, spins, and spin recovery techniques.

SBT



TASKS

Lift and Basic Aerodynamics
Major Components and Subcomponents
Types of Aircraft Construction
Structure of the Atmosphere
Theories in the Production of Lift
Airfoil Design
Forces Acting on the Aircraft
Wingtip Vortices and Ground Effect
Axes of an Aircraft
Aircraft Design Characteristics
Aerodynamic Forces in Flight Maneuvers
Stalls and Spins
Stall/Spin Awareness
Propeller Principles
Load Factors
Primary Flight Controls
Secondary Flight Controls
Coordinated Flight
Adverse Yaw

Completion Standards

Exhibit knowledge of the principles of aerodynamics, and stall awareness, spin entry, spins, and spin recovery techniques through written and oral examination.

Maneuvers

Maneuvers

Stage 1 Lesson 6

Maneuvers Briefing

Lesson Time 1.0

Objectives

The instructor will introduce additional required aeronautical knowledge areas and skills to include Preflight Assessment, Normal Takeoffs and Landings, basic Traffic Pattern and Airport Operations, Stalls, Slow Flight, and Steep Turns. In addition, the instructor will introduce further Safety of Flight items as defined in the Private Pilot Airman Certification Standards. All maneuvers will be introduced in accordance with the Pro Standards Standardization Manual with reference to the applicable POH, the AFH, and the PHAK.

SBT

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TASK

Safety of Flight
Aeronautical Decision Making and Risk Management
Collision Hazards
Controlled Flight into Terrain Awareness
Situational Awareness
Wire Strike Avoidance
Aviation Security
Pilot Qualifications
Weather Information
Performance and Limitations
Traffic Patterns
Airport, Taxiway, and Runway Signs and Markings
Normal Takeoff and Climb
Normal Approach and Landing
Steep Turns
Maneuvering During Slow Flight
Power-Off Stalls
Power-On Stalls
Spin Awareness

Completion Standard

The student demonstrates an understanding of the required knowledge of the tasks related to Preflight Assessment, Normal Takeoffs and Landings, basic Traffic Pattern and Airport

Operations, Stalls, Slow Flight, and Steep Turns. The lesson will be complete once the instructor has introduced all the required Tasks and subsequent elements to the student.

Maneuvers
Stage 1 Lesson 7
Dual Flight
Lesson Time 2.0

Objectives

The student will practice the skills associated with Preflight Assessment, Normal Takeoffs and Landings, basic Traffic Pattern and Airport Operations, Stalls, Slow Flight, and Steep Turns. Emphasis will be on developing the student's understanding of the associated tasks and the relevant aircraft performance.

SBT



TASK

Safety of Flight
Aeronautical Decision Making and Risk Management
Collision Hazards
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Steep Turns
Maneuvering During Slow Flight
Power-Off Stalls
Power-On Stalls
Spin Awareness
After Landing, Parking and Securing

Notes: 1.0 Pre Brief / 1.5 Flight / .3 Post Briefing

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of the elements related to the tasks of Stalls, Slow Flight, and Steep Turns by performing the tasks in accordance to the Pro Standards Standardization Manual within the prescribed standards of the

Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Maneuvers
Stage 1 Lesson 8
Dual Flight
Lesson Time 2.0

Objectives

The student will practice the skills associated with Preflight Assessment, Normal Takeoffs and Landings, basic Traffic Pattern and Airport Operations, Stalls, Slow Flight, and Steep Turns. Emphasis will be on developing the student's understanding of the associated tasks and the relevant aircraft performance.

SBT

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TASK

Safety of Flight
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Steep Turns
Maneuvering During Slow Flight
Power-Off Stalls
Power-On Stalls
Spin Awareness
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of the elements related to the tasks of Stalls, Slow Flight, and Steep Turns by performing the tasks in accordance with the Pro Standards Standardization Manual within the prescribed standards of the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Maneuvers
Stage 1 Lesson 9
Ground Lesson
Lesson Time 2.0

Legal Requirements for Flight

OBJECTIVES

Exhibit knowledge of applicable federal aviation regulations for private pilot privileges, limitations, and flight operations; accident reporting requirements of the National Transportation Safety Board; and applicable subjects of the "Aeronautical Information Manual" and appropriate FAA advisory circulars.

SBT

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TASKS

Federal Aviation Regulations (14 CFRs)
14 CFR Part 1 – Definitions and Abbreviations
14 CFR Part 43 – Maintenance, Preventive Maintenance, Rebuilding and Alteration
14 CFR Part 61 – Certification: Pilots, Flight Instructors, and Ground Instructors
14 CFR Part 91 – General Operating and Flight Rules
Aeronautical Information Manual
Advisory Circulars
NTSB Part 830
Airplane Flight Manuals
Aircraft Documents
Aircraft Inspections
Preventative Maintenance
Minimum Equipment Lists
Operations with Inoperative Equipment
Aircraft Owner/Operator Responsibilities
Airworthiness Directives

Completion Standards

Maneuvers
Stage 1 Lesson 10
Dual Flight
Lesson Time 2.0

Objectives

The student will practice the skills Preflight Assessment, Normal Takeoffs and Landings, Traffic Pattern and Airport Operations, Stalls, Steep Turns and Ground Reference Maneuvers. Emphasis will be on developing the student's understanding of the associated tasks and the relevant aircraft performance. Additionally, the instructor will demonstrate Accelerated Stalls and Cross-Control Stalls to the student with emphasis on avoidance.

SBT

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TASK

Safety of Flight
Runway Incursion Avoidance
Land and Hold Short Operations (LAHSO)
Wind Shear and Wake Turbulence Avoidance
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Steep Turns
Ground Reference Maneuvers (S-turns)
Ground Reference Maneuvers (Turns around a point)
Power-Off Stalls
Spin Awareness
Accelerated Stall (Standardization Manual)
Crossed-Control Stall (CFI Demonstration)
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of the elements related to the tasks of Stalls, Steep Turns, S-Turns, and Turns Around a Point by performing the tasks in accordance to the Pro Standards Standardization Manual within the prescribed standards of the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Maneuvers
Stage 1 Lesson 11
Dual Flight
Lesson Time 2.0

SBT



Objectives

The student will practice the skills Preflight Assessment, Normal Takeoffs and Landings, basic Traffic Pattern and Airport Operations, Stalls, Steep Turns and Ground Reference Maneuvers. Emphasis will be on developing the student's understanding of the associated tasks and the relevant aircraft performance. Additionally, the instructor will demonstrate Elevator Trim Stalls and Secondary Stalls to the student with emphasis on avoidance.

TASK

Safety of Flight
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Ground Reference Maneuvers (Rectangular course)
Ground Reference Maneuvers (S-turns)
Ground Reference Maneuvers (Turns around a point)
Power-On Stalls
Spin Awareness
Elevator Trim Stalls (CFI Demonstration)
Secondary Stall (CFI Demonstration)
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of the elements related to the tasks of Stalls, Steep Turns, and Ground Reference Maneuvers by performing the tasks in accordance to the Pro Standards Standardization Manual within the

prescribed standards of the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Systems Validation

Procedures Validation

Stage 1 Lesson 12

Systems Validation

Lesson Time 0.3

SBT

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Objectives

The student will recite the aircraft limitations and demonstrate systems knowledge of the aircraft.

TASKS

Aircraft Limitations

Aircraft Systems

Completion Standard

The student completes each task, from memory.

Procedures Validation

Procedures Validation

Stage 1 Lesson 12

Procedures Validation

Lesson Time 0.5

SBT

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Objectives

The student will complete each checklist in a CPT as a flow pattern, followed by the checklist verification with no more than one missed flow item per checklist with no missed items during checklist verification.

TASKS

Before Start (SOPA)

Engine Priming (SOPA)

Engine Starting (SOPA)

Before Taxi (SOPA)

Before Takeoff (SOPA)

Takeoff (SOPA)

Climb (SOPA)

Cruise (SOPA)

In-Range (SOPA)

After Landing (SOPA)

Shutdown/Secure (SOPA)

Completion Standard

The student completes each checklist, from memory, with a maximum on one missed item per checklist, with no missed items allowed during checklist verification.

Maneuvers Validation

Maneuvers Validation
Stage 1 Lesson 13
Maneuvers Validation
Lesson Time 2.0

Objectives

The student will demonstrate the skills associated with Preflight Assessment, Normal Takeoffs and Landings, basic Traffic Pattern and Airport Operations, Stalls, Steep Turns and Ground Reference Maneuvers on a flight conducted by an instructor other than the student's assigned instructor. Emphasis will be on ensuring the student's understanding of the associated tasks and the relevant aircraft performance while focusing on VFR flight techniques.

SBT

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TASKS

Safety of Flight
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Steep Turns
Ground Reference Maneuvers
Maneuvering During Slow Flight
Power-Off Stalls
Power-On Stalls
Spin Awareness
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson will be initially conducted by an instructor pilot other than the student's assigned instructor. The review will focus on VFR flight by outside references as it pertains to the basic tasks of Steep Turns, Ground Reference Maneuvers, Stalls, and Slow Flight. Repeats of this lesson may be completed by the student's assigned IP.

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of the elements related to the tasks of Stalls, Maneuvering During Slow Flight, Steep Turns, and Ground Reference Maneuvers by performing the tasks in accordance to the Pro Standards Standardization Manual within the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt

Landings

Landings
Stage 1 Lesson 14
Ground Lesson
Lesson Time 2.0

Performance and Limitations

OBJECTIVES

Exhibit knowledge of weight and balance computations, aircraft performance, including effects of density altitude on takeoff and climb performance, and preflight action including data on takeoff and landing distances.

SBT

Plan your first ski trip to Big Bear (L35). The pilot, instructor, and friend will fly to Big Bear with gear.

TASKS

Weight and Balance Computations
Center of Gravity
Moment and Moment Arm
Importance of Performance Data
Pressure Altitude
Density Altitude
Takeoff and Landing Performance
Performance Speeds and Charts

Completion Standards

Exhibit knowledge of weight and balance computations, aircraft performance, including effects of density altitude on takeoff and climb performance, and preflight action including data on takeoff and landing distances by calculating a weight and balance and performance data in real time.

Landings
Stage 1 Lesson 15
Maneuvers Briefing
Lesson Time 2.0

Objectives

The instructor will introduce the student to the concepts required to develop the aeronautical knowledge and skill to perform Crosswind Takeoffs and Landings in accordance with the Pro Standards Standardization Manual, Pro Standards Flight Operations Manual, and the Pro Standards Private Pilot, Stage 1 Course Standards. Additionally, the instructor will further develop the student's understanding of Airport Operations and enhance the student's understanding of required aeronautical knowledge areas in accordance with the Pro Standards Private Pilot, Stage 1 Course Standards.

SBT

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TASK

Pro Standards Flight Operations Manual
Pilot Qualifications
Airworthiness Requirements
Weather Information
Performance and Limitations
Operation of Systems
Airport Operations
Traffic Patterns
Airport, Taxiway, and Runway Signs and Markings
Crosswind Takeoff and Climb (Standardization Manual)
Crosswind Approach and Landing (Standardization Manual)
Go-Around/Rejected Landing

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of the procedures required to perform Crosswind Takeoffs and Landings in accordance with the applicable POH, the AFH, the PHAK, and the Pro Standards Standardization Manual. Additionally, the student demonstrates an understanding of the relevant safety of flight considerations as well as an understanding of the required aeronautical knowledge elements prescribed in the Private Pilot Airplane Airman Certification Standards.

Landings
Stage 1 Lesson 16
Dual Flight
Lesson Time 2.0

Objectives

The instructor will demonstrate and then have the student practice Normal Takeoffs and Landings as well as Airport Operations. This lesson will be conducted in calm winds and weather to further develop the student's knowledge and skills of the fundamentals of Normal Approaches and Landings.

SBT

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TASK

Pro Standards Flight Operations Manual
Safety of Flight
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Airport Operations
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Go-Around/Rejected Landing
After Landing, Parking and Securing

Notes: 1.3 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson is intended as the student's first comprehensive practice of Normal Approaches and Landings. This lesson should, weather and schedule permitting, be completed in light winds to give the student ideal conditions for learning the fundamentals of Normal Approaches and Landings.

Completion Standard

This lesson will be graded at +50% ACS. The student performs the tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Landings
Stage 1 Lesson 17
Dual Flight
Lesson Time 2.0

Objectives

The instructor and student will discuss the previously introduced elements related to the effects of wind on Takeoffs, Landings, and the Traffic Pattern.

SBT

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TASK

Safety of Flight
Collision Hazards
Runway Incursion Avoidance
Land and Hold Short Operations (LAHSO)
Wind Shear and Wake Turbulence Avoidance
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Takeoff and Climb (Headwind, Tailwind, Crosswind)
Approach and Landing (Headwind, Tailwind, Crosswind)
Forward Slip to a Landing
Go-Around/Rejected Landing

Notes: 2.0 Hrs. Ground Briefing (Suggested)

- This lesson may include training in the "X-Wind" crosswind simulator. This is optional.

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of the skills required to successfully perform Crosswind Landings. Additionally, the student demonstrates the knowledge required to successfully perform Crosswind Landings. The student's understanding and knowledge will be based on the applicable POH, the AFH, the PHAK, and the Pro Standards Standardization Manual.

Landings
Stage 1 Lesson 18
Dual Flight
Lesson Time 2.0

Objectives

The instructor and student will practice Normal Takeoffs and Landings as well as Traffic Pattern operations. This lesson will further enhance the student's knowledge and skills required to perform the required tasks associated with Takeoffs, Landings, and Airport Operations.

SBT



TASK

Pro Standards Flight Operations Manual
Safety of Flight
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Go-Around/Rejected Landing
After Landing, Parking and Securing

Notes: 1.3 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student performs the tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Landings
Stage 1 Lesson 19
Dual Flight
Lesson Time 2.0

Objectives

The instructor and student will practice Normal Takeoffs and Landings as well as Traffic Pattern operations. This lesson will further enhance the student's knowledge and skills required to perform the required tasks associated with Takeoffs, Landings, and Airport Operations.

SBT

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TASK

Pro Standards Flight Operations Manual
Safety of Flight
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Forward Slip to a Landing
Go-Around/Rejected Landing
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student performs the tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Landings
Stage 1 Lesson 20
Ground Lesson
Lesson Time 2.0

National Airspace System

OBJECTIVE

Exhibits knowledge of the National Airspace System.

SBT

Operating a flight for Elon Musk from SAN to LAX, to look for suitable places to launch SpaceX's newest rocket.

TASKS

Categories and Types of Airspace
Controlled Airspace
Uncontrolled Airspace
Airspace and VFR Weather Minimums
Special VFR
Special-Use Airspace
Special Airspace Areas
Other Airspace Areas
Airspace and Weather Minimums Lab

COMPLETION STANDARDS

Exhibits knowledge of the National Airspace System through written and oral examination.

Landings
Stage 1 Lesson 21
Dual Flight
Lesson Time 2.0

Objectives

The instructor and student will practice Normal Takeoffs and Landings as well as Traffic Pattern operations. This lesson will further enhance the student's knowledge and skills required to perform the required tasks associated with Takeoffs, Landings, and Airport Operations. In addition, the instructor will introduce abnormal landings such as No-Flap Landings and Normal and Crosswind Approach and Landing (By Reference to Standby Instruments).

SBT

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TASK

Pro Standards Flight Operations Manual
Safety of Flight
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
No-Flap Landing (Standardization Manual)
Normal and Crosswind Approach and Landing (By Reference to Standby Instruments)
Forward Slip to a Landing
Go-Around/Rejected Landing
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student performs the tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Landings
Stage 1 Lesson 22
Dual Flight
Lesson Time 2.0

Objectives

The instructor and student will practice Normal Takeoffs and Landings as well as Traffic Pattern operations. The Instructor will review the student's knowledge and skills required to perform the required tasks associated with Takeoffs, Landings, and Airport Operations, and abnormal landings such as No-Flap Landings and Normal and Crosswind Approach and Landing (By Reference to Standby Instruments).

SBT



TASK

Pro Standards Flight Operations Manual
Safety of Flight
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
No-Flap Landing (Standardization Manual)
Normal and Crosswind Approach and Landing (By Reference to Standby Instruments)
Forward Slip to a Landing
Go-Around/Rejected Landing
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student performs the tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Emergencies

Emergencies

Stage 1 Lesson 23

Maneuvers Briefing

Lesson Time 2.0

Objectives

The instructor will introduce the student to the concepts required to safely operate the aircraft in emergency conditions and with various systems and equipment malfunctions. The instructor will, additionally, review with the student previously covered Preflight Assessment tasks including Airworthiness Requirements and Operation of Systems. The instructor will emphasize Operation of Systems in relation to Systems and Equipment Malfunctions with reference to on the applicable POH, the AFH, the PHAK, and the Pro Standards Standardization Manual, and the Pro Standards SOPA.

SBT

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TASK

Pro Standards Publications

Pro Standards Checklist Philosophy (SOPA)

Initial Aircraft Acceptance (SOPA)

Standard Callouts (SOPA)

Safety of Flight

Use of Checklists

Aeronautical Decision Making and Risk Management

Automation Management

Airworthiness Requirements

Operation of Systems

Emergency Descent

Emergency Approach and Landing (Simulated)

Systems and Equipment Malfunctions (Various)

G1000 Malfunctions and Failures

Emergency Equipment and Survival Gear

Notes: 2.0 Hrs. Ground Briefing (Suggested)

- The instructor will brief the student on acceptable methods for simulating malfunctions with the G1000 as outlined in the FOM.

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates an understanding of all tasks in accordance with the requirements of the Private Pilot Airplane Airman Certification Standards as well as all procedures outlined in the Pro Standards Standardization Manual.

Emergencies
Stage 1 Lesson 24
Procedures Training
Lesson Time 2.0

Objectives

The student will complete each checklist in a CPT as a flow pattern, followed by the checklist verification with no more than one missed flow item per checklist with no missed items during checklist verification.

SBT

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TASK

Excessive Fuel Vapor (SOPA)
Flooded Engine Start (SOPA)
Operation of Systems
Engine Troubleshoot (SOPA)
Engine Secure (SOPA)
Emergency Landing Without Power (SOPA)
Precautionary Landing with Engine Power (SOPA)
Engine Fire on Ground (SOPA)
Engine Fire in Flight (SOPA)
Wing Fire (SOPA)
Air Data System Failure (SOPA)
Attitude and Heading Reference System Failure (SOPA)
Electrical Faults (SOPA)
Illumination of Oil Pressure Annunciator (SOPA)
Illumination of CO LVL HIGH Annunciator (SOPA)
Illumination of High Volts Annunciator or M. Batt Amps more than 40 (SOPA)

Notes: 2.0 Hrs. Ground Briefing (Suggested)

- The student will be asked to complete each checklist as a flow pattern, followed by checklist verification (Do/Verify method). The student will be given an opportunity to correct missed flow items by checklist verification. No more than one missed flow item per checklist is allowed. No missed items are allowed during checklist verification. This lesson must be repeated until the student can meet the above stated standard.

Completion Standard

This lesson will be graded at +50% ACS. The student completes each checklist, from memory, with a maximum on one missed item per checklist, with no missed items allowed during checklist verification.

Emergencies
Stage 1 Lesson 25
Dual Flight
Lesson Time 2.0

Objectives

The student will practice various Systems and Equipment Malfunctions in the aircraft while also generating an understanding of the aircraft's operation and handling during emergency operations. The instructor will additionally provide the student with a variety of scenarios to develop Aeronautical Decision Making during malfunctions and emergencies.

SBT

>>

TASK

Safety of Flight
Airworthiness Requirements
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Emergency Descent
Emergency Approach and Landing (Simulated)
Engine Failure in the Traffic Pattern
Systems and Equipment Malfunction
Systems and Equipment Malfunction (Partial / Complete Power Loss)
Systems and Equipment Malfunctions (Various)
Engine Fire in Flight (SOPA)
Wing Fire (SOPA)
G1000 Malfunctions and Failures
Emergency Equipment and Survival Gear
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- G1000 Malfunctions may be simulated by covering the PFD with a vinyl sticker, dimming the display, or by covering parts of the display using a vinyl sticker.

Completion Standard

This lesson will be graded at +50% ACS. Student demonstrates an understanding of the elements related to Systems and Equipment Malfunctions by performing all the tasks in accordance with the Pro Standards Standardization Manual and the Pro Standards SOPA to the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Emergencies
Stage 1 Lesson 26
Dual Flight
Lesson Time 2.0

Objectives

The student will practice various Systems and Equipment Malfunctions in the aircraft while also generating an understanding of the aircraft's operation and handling during emergency operations. The instructor will additionally provide the student with a variety of scenarios to develop Aeronautical Decision Making during malfunctions and emergencies.

SBT

>>

TASK

Safety of Flight
Airworthiness Requirements
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Emergency Descent
Emergency Approach and Landing (Simulated)
Engine Failure in the Traffic Pattern
Systems and Equipment Malfunction
Systems and Equipment Malfunction (Partial / Complete Power Loss)
Systems and Equipment Malfunctions (Various)
G1000 Malfunctions and Failures
Electrical Faults (SOPA)
Electrical/Cabin Fire (SOPA)
Emergency Equipment and Survival Gear
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. Student demonstrates an understanding of the elements related to Systems and Equipment Malfunctions by performing all the tasks in accordance with the Pro Standards Standardization Manual and the Pro Standards SOPA to the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Emergencies
Stage 1 Lesson 27
Ground Lesson
Lesson Time 2.0

Objectives

The student will demonstrate the required knowledge to conduct solo flight through an oral review with the instructor and the successful completion of a Pre-Solo Written Exam corrected to 100%.

SBT

>>

TASK

Pilot Qualifications
Weather Information
National Airspace System
Performance and Limitations
Operation of Systems
Communications, Light Signals, and Runway Lighting Systems
Airport, Taxiway, and Runway Signs and Markings
Pre-Solo Written Exam Administered
Pre-Solo Written Exam Corrected to 100%

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student completes a Pre-Solo Written Exam that is corrected to 100% and demonstrates adequate knowledge of all required tasks to the standard prescribed in the Private Pilot Airplane Airman Certification Standards

Emergencies
Stage 1 Lesson 27
Dual Flight
Lesson Time 2.0

Objectives

The student will demonstrate the required aeronautical knowledge and skill to safely operate the aircraft in solo flight operations by performing all the required tasks.

SBT

>>

TASK

Initial Aircraft Acceptance (SOPA)
Standard Callouts (SOPA)
Safety of Flight
Use of Checklists
Collision Hazards
Runway Incursion Avoidance
Wind Shear and Wake Turbulence Avoidance
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Go-Around/Rejected Landing
Steep Turns
Ground Reference Maneuvers (Turns around a point)
Power-Off Stalls
Power-On Stalls
Spin Awareness
Emergency Approach and Landing (Simulated)
Systems and Equipment Malfunction (Partial / Complete Power Loss)
Emergency Equipment and Survival Gear
After Landing, Parking and Securing

Optional Tasks

Communications, Light Signals, and Runway Lighting Systems

No-Flap Landing (Standardization Manual)
Forward Slip to a Landing
Maneuvering During Slow Flight

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- Optional Tasks should be completed if the student did not receive at least a "G" on these Tasks during the completion of lesson 11 or Lesson 18.

Completion Standard

This lesson will be graded at +50% ACS. The student successfully demonstrates the knowledge and skill to operate the aircraft safely in solo operations by performing all tasks in accordance with the Pro Standards Standardization Manual and meeting the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Solo Validation

Solo Validation
Stage 1 Lesson 28
Ground Lesson
Lesson Time 2.0

Stage One Review

Objectives

To determine through oral testing and a flight check that the student can demonstrate satisfactory proficiency of aeronautical knowledge and skill to competently and safely operate an airplane in solo flight in accordance with 14 CFR Part 141 Appendix B(6)(b).

SBT

>>

TASKS

Stage 1 Knowledge Areas

Completion Standards

The student is prepared for the Solo Knowledge Validation

Solo Validation
Stage One Lesson 29
Stage One Exam
Lesson Time 2.0

Stage One Exam

Objectives

To determine through oral testing and a flight check that the student can demonstrate satisfactory proficiency of aeronautical knowledge and skill to competently and safely operate an airplane in solo flight in accordance with 14 CFR Part 141 Appendix B(6)(b).

SBT

>>

TASKS

Stage One Exam

Completion Standards

Score 80% or better on Stage One Exam.

Solo Validation
Stage 1 Lesson 30
Solo Knowledge Validation
Lesson Time 2.0

Solo Knowledge Validation

Objectives

The student will demonstrate the required proficiency of aeronautical knowledge and skill to safely operate the aircraft in solo flight operations by performing all the required tasks.

SBT

>>

TASK

Safety of Flight
Use of Checklists
Aeronautical Decision Making and Risk Management
Collision Hazards
Runway Incursion Avoidance
Wind Shear and Wake Turbulence Avoidance
Weather Information
Performance and Limitations
Operation of Systems
National Airspace System

Completion Standard

The student completes each checklist, from memory, with a maximum of one missed item per checklist, with no missed items allowed during checklist verification, additionally the student successfully demonstrates, through oral questioning and a flight check, the knowledge and skill to operate the aircraft safely in solo operations by performing all tasks in accordance with the Pro Standards Standardization Manual and meeting the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Solo Validation
Stage 1 Lesson 30
Solo Validation
Lesson Time 2.0

Objectives

The student will demonstrate the required proficiency of aeronautical knowledge and skill to safely operate the aircraft in solo flight operations by performing all the required tasks.

SBT

>>

TASK

Safety of Flight
Use of Checklists
Aeronautical Decision Making and Risk Management
Collision Hazards
Runway Incursion Avoidance
Wind Shear and Wake Turbulence Avoidance
Weather Information
Performance and Limitations
Operation of Systems
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Go-Around/Rejected Landing
Systems and Equipment Malfunction (Partial / Complete Power Loss)
Emergency Equipment and Survival Gear
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.9 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student completes each checklist, from memory, with a maximum of one missed item per checklist, with no missed items allowed during checklist verification, additionally the student successfully demonstrates, through oral questioning and a flight check, the knowledge and skill to operate the aircraft safely in solo

operations by performing all tasks in accordance with the Pro Standards Standardization Manual and meeting the standards prescribed in the Private Pilot Airplane Airman Certification Standards, and at no time will the safe outcome of the flight be in doubt.

Stage Two

Overview

Objectives

Completion Standards

Supervised Solo Flight

Supervised Solo Flight
Stage 2 Lesson 30
Flight Lesson
Lesson Time 2.0

Objectives

The student will complete their first solo as a supervised solo in the Traffic Pattern. The flight will consist of a Dual Flight in the Traffic Pattern with the student's instructor followed immediately by a solo flight.

SBT

>>The student will demonstrate the tasks to the instructor then perform them solo

TASKS

Preflight Assessment
Flight Deck Management
Use of Checklists
Standard Callouts (SOPA)
Engine Starting
Communications, Light Signals, and Runway Lighting Systems
Taxiing
Runway Incursion Avoidance
Before Takeoff Check
Normal Takeoff and Climb
Collision Hazards
Traffic Patterns
Normal Approach and Landing
Go-Around (Rejected Landing)
Aeronautical Decision Making and Risk Management
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training, 0.8 hrs. Solo Flight Training, and 0.5 hrs. Pre and Post Briefing (Suggested)

- The flight instructor who conducts this lesson must verify prior to the start of this lesson that the student has in their possession valid student pilot certificate and the student has received the proper endorsements that authorize solo flight in accordance with 14CFR Part 61.87(n), 61.87(p), and 14CFR Part 141 Appendix B(6)(b).

Completion Standards

Student completes an initial solo flight in the traffic pattern in accordance with the limitations of the Pro Standards and its procedures.

Weather
Stage 2 Lesson 31
Ground Lesson
Lesson Time 2.0

Objectives

Exhibits knowledge of the recognition of critical weather situations from the ground and in flight, windshear avoidance, and the procurement and use of aeronautical weather reports and forecasts.

SBT

>>Get a weather briefing for your flight from KSAN to KLAS.

TASKS

Weather Theory

Atmosphere
Coriolis Force
Altitude and Atmospheric Pressure
Wind and Currents
Atmospheric Stability
Air Masses and Fronts
Weather Phenomena
Recognition of Critical Weather Situations – Ground and Inflight
Windshear Avoidance

Weather Services

Observations
Service Outlets
Weather Briefings
Aviation Weather Reports
Aviation Forecasts
Weather Charts
ATC Radar Weather Displays

Completion Standards

Exhibits knowledge of Weather theory and products through written and oral examination.

Basic Instrument Maneuvers

Basic Instrument Maneuvers
Stage 2 Lesson 32
Maneuvers Briefing
Lesson Time 2.0

Objectives

The instructor will introduce the concepts relating to the required aeronautical knowledge associated with Basic Instrument Maneuvers in addition to Human Factors. The instructor will emphasize avoidance procedures and operations during inadvertent VFR flight into Instrument Meteorological Conditions.

SBT

>>A new private pilot encounters IMC on the way to KSBA.

TASKS

Automation Management
Human Factors
Navigation Systems and Radar Services
Control and Performance Method Overview
Straight-and-Level Flight
Constant Airspeed Climbs
Constant Airspeed Descents
Turns to Headings
Recovery from Unusual Flight Attitudes
Radio Communications, Navigation Systems/Facilities, and Radar Services

Completion Standard

The student demonstrates an understanding of the aeronautical knowledge required by the Private Pilot ACS to operate the aircraft safely during inadvertent VFR flight into IMC conditions in accordance with the Airplane Flying Handbook and the Pro Standards Standardization Manual. Additionally, the student demonstrates an understanding of the aeronautical knowledge relating to Human Factors as required by the Private Pilot-Airplane ACS with reference to the PHAK.

Basic Instrument Maneuvers
Stage 2 Lesson 32
Flight Lesson
Lesson Time 2.0

Objectives

The student will practice the skills required to safely operate the aircraft during inadvertent VFR flight into IMC. The student and instructor will simulate scenarios in to include initial action items during inadvertent flight into IMC.

SBT

>>A new private pilot encounters IMC on the way to KSBA.

TASKS

Safety of Flight
Collision Hazards
Automation Management
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Straight-and-Level Flight
Constant Airspeed Climbs
Constant Airspeed Descents
Turns to Headings
Recovery from Unusual Flight Attitudes
Radio Communications, Navigation Systems/Facilities, and Radar Services
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson includes 1.0 hour of instrument training to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (iii): three hours of instrument training in a single-engine airplane.

Completion Standard

The student demonstrates the required aeronautical knowledge and skill to fly the aircraft during inadvertent VFR flight into IMC by performing all the tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed by the Private Pilot Airplane Airman Certification Standards.

Basic Instrument Maneuvers
Stage 2 Lesson 33
Flight Lesson
Lesson Time 2.0

Objectives

The student will complete a solo flight in the local practice areas practicing VFR maneuvers. This will help the student to develop confidence prior to Solo Cross-Country operations later in the flight course.

SBT

>>Fly to the practice area for maneuvers.

TASKS

Safety of Flight
Aeronautical Decision Making and Risk Management
Collision Hazards
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Normal Takeoff and Climb
Normal Approach and Landing
Go-Around/Rejected Landing
Steep Turns
Ground Reference Maneuvers
Maneuvering During Slow Flight
Power-Off Stalls
Power-On Stalls
After Landing, Parking and Securing

Notes: 1.0 Hrs. Solo Flight Training (Suggested)

Completion Standard

The student successfully completes a 1.0-hour solo flight in the local practice areas in accordance with the Pro Standards FOM, and Pro Standards SOPA.

Performance Takeoffs and Landings

Performance Takeoffs and Landings
Stage 2 Lesson 34
Maneuvers Brief
Lesson Time 2.0

Objectives

The instructor will introduce the aeronautical knowledge and skills required of the student to perform Performance Takeoffs and Performance Landings, with reference to the Pro Standards Standardization Manual, the applicable POH, and the AFH. Additionally, the instructor and student will review the aeronautical knowledge requirements related to Airworthiness Requirements, Performance and Limitations, and Operations of Systems, emergency operations and Systems and Equipment Malfunctions with reference to the applicable POH, the AFH, the PHAK, and the Pro Standards SOPA.

SBT

>>It is time to start training for the Oshkosh fly in.

TASK

Airworthiness Requirements
Performance and Limitations
Operation of Systems
Traffic Patterns
Taxiing
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Short Field Takeoff and Maximum Performance Climb
Short Field Approach and Landing
Forward Slip to a Landing
Emergency Descent
Emergency Approach and Landing (Simulated)
Systems and Equipment Malfunction (Various)
Emergency Equipment and Survival Gear

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

The student demonstrates an understanding of all tasks in accordance with the requirements of the Private Pilot Airplane Airman Certification Standards as well as all procedures outlined in the Pro Standards Standardization Manual.

Performance Takeoffs and Landings
Stage 2 Lesson 35
Maneuvers Brief
Lesson Time 2.0

Objectives

The student will practice the skills required to perform Performance Takeoffs and Landings in accordance with the Pro Standards Standardization Manual and the applicable POH.

SBT

>>It is time to start training for the Oshkosh fly in.

TASK

Safety of Flight
Collision Hazards
Automation Management
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Short Field Takeoff and Maximum Performance Climb
Short Field Approach and Landing
Forward Slip to a Landing
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

This lesson will be graded at +50% ACS. The student demonstrates the knowledge and skills required for Performance Takeoffs and Landings by performing all required tasks to the standards prescribed by the Private Pilot Airplane Airman Certification Standards in accordance with the Pro Standards Standardization Manual and the applicable POH.

Performance Takeoffs and Landings
Stage 2 Lesson 36
Maneuvers Brief
Lesson Time 2.0

Objectives

The student will practice the skills required to perform Performance Takeoffs and Landings in accordance with the Pro Standards Standardization Manual and the applicable POH.

SBT

>>It is time to start training for the Oshkosh fly in.

TASK

Safety of Flight
Collision Hazards
Automation Management
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Short Field Takeoff and Maximum Performance Climb
Short Field Approach and Landing
Forward Slip to a Landing
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

The student demonstrates the knowledge and skills required for Performance Takeoffs and Landings by performing all required tasks to the standards prescribed by the Private Pilot Airplane Airman Certification Standards in accordance with the Pro Standards Standardization Manual and the applicable POH.

Performance Takeoffs and Landings
Stage 2 Lesson 37
Maneuvers Brief
Lesson Time 2.0

Objectives

The student will review the skills and procedures to operate the aircraft during various Systems and Equipment Malfunctions, Emergencies, and inadvertent VFR flight into IMC. The student will also practice the skills required for Performance Takeoffs and Landings. The student will additionally review their knowledge of the applicable checklist flows and procedures in accordance with the Pro Standards SOPA and Pro Standards Standardization manual.

SBT

>>It is time to start training for the Pro Standards Annual Pro Pilot Cup.

TASK

Safety of Flight
Collision Hazards
Automation Management
Weather Information
Performance and Limitations
Preflight Assessment
Flight Deck Management
Engine Starting
Taxiing
Before Takeoff Check
Communications, Light Signals, and Runway Lighting Systems
Traffic Patterns
Soft-Field Takeoff and Climb
Soft-Field Approach and Landing
Straight-and-Level Flight
Constant Airspeed Climbs
Constant Airspeed Descents
Turns to Headings
Radio Communications, Navigation Systems/Facilities, and Radar Services
Power-off 180's
Emergency Descent
Emergency Landing Without Power (SOPA)
Precautionary Landing with Engine Power (SOPA)
Systems and Equipment Malfunction (Various)
After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson includes 0.4 hours of instrument training to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (iii): three hours of instrument training in a single-engine airplane.

Completion Standard

The student demonstrates the required knowledge, skills, and Aeronautical Decision Making by performing all of the tasks to the standards prescribed by the Private Pilot Airplane Airman Certification Standards in accordance with the Pro Standards Standardization Manual, Pro Standards SOPA, and the applicable POH.

SECTION 9

REVIEW AND SOLO PRACTICE

Objective

To complete dual and solo review of tasks in preparation for cross-country and Night Preparation. The solo lessons are intended to increase student confidence in solo operations prior to solo cross-country flight.

Suggested Completion Time

Ground Briefing: 2.5 hrs.

Dual Flight Training: 1.4 hrs.

Solo Flight Training 2.0 hrs.

LESSON 4 OPERATION OF SYSTEMS

OBJECTIVES: Exhibit knowledge of the principles of powerplants and aircraft systems.

UNIT 8 AIRCRAFT SYSTEMS

DISCUSS:

- 1. Powerplant and Propeller**
- 2. Ignition System**
- 3. Engine Cooling Systems**
- 4. Exhaust Systems**
- 5. Starting System**
- 6. Combustion**
- 7. Fuel and Oil Systems**
- 8. Electrical System**
- 9. Hydraulic Systems**
- 10. Landing Gear**
- 11. Environmental**
- 12. Oxygen Systems**
- 13. Anti-ice and Deice Systems**

UNIT 9 FLIGHT INSTRUMENTS

DISCUSS:

- 1. Pitot-Static Flight Instruments**
- 2. Gyroscopic Flight Instruments**
- 3. Compass Systems**

UNIT 10 G1000

DISCUSS:

- 1. G1000 System Overview**
- 2. Normal Operations**
- 3. Emergency Procedures**

LESSON 36 - GROUND BRIEFING (GND)

Objectives

The instructor and student will review the aeronautical knowledge required to conduct solo flights in the local practice areas and in the Traffic Pattern. This will include a review of the applicable sections of the Pro Standards FOM and Safety of Flight items relating to solo flight.

TASK

Pro Standards Flight Operations Manual

Local Operations

Practice Area Review

Safety of Flight

Collision Hazards

Pilot Qualifications

Airworthiness Requirements

Issue Stage Exam

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

The student demonstrates the required knowledge required to safely operate the aircraft during solo operations in the local practice areas and in the Traffic Pattern with reference to the Pro Standards FOM and the Private Pilot Airplane Airman Certification Standards.

LESSON 37 - FLIGHT (DUAL)

Objectives

The instructor and student will review the aeronautical knowledge and skills required to conduct solo flights in the local practice areas and in the Traffic Pattern by reviewing the maneuvers, takeoffs, and landings the student will perform on their solo flights in addition to the practice areas the student will utilize.

TASK

Safety of Flight

Aeronautical Decision Making and Risk Management

Collision Hazards

Weather Information

Performance and Limitations

Preflight Assessment

Flight Deck Management

Engine Starting

Taxiing

Before Takeoff Check

Communications, Light Signals, and Runway Lighting Systems

Traffic Patterns

Normal Takeoff and Climb

Normal Approach and Landing

Short-Field Takeoff and Maximum Performance Climb

Soft-Field Approach and Landing

Short-Field Approach and Landing

Go-Around/Rejected Landing

Steep Turns

Ground Reference Maneuvers

Maneuvering During Slow Flight

Power-Off Stalls

Power-On Stalls

After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

Completion Standard

The student demonstrates the required knowledge, skills, and Aeronautical Decision Making required to safely operate the aircraft during solo operations in the local practice areas and in the Traffic Pattern by performing all tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed by the Private Pilot Airplane Airman Certification Standards.

LESSON 7 HUMAN FACTORS

OBJECTIVES: Exhibit knowledge of Aeromedical Factors and aeronautical decision making and judgment.

UNIT 16 AEROMEDICAL FACTORS

DISCUSS:

1. Obtaining a Medical Certificate
2. Health and Physiological Factors
3. Vision in Flight
4. Illusions and Spatial Disorientation

UNIT 17 AERONAUTICAL DECISION MAKING

DISCUSS:

1. Crew Resource Management
2. Single-Pilot Resource Management
3. Hazard and Risk
4. The Decision Making Process
5. Situational Awareness
6. Risk Management
7. Human Behavior

LESSON 39 - FLIGHT (SOLO)

Objectives

The student will complete a solo flight in the Traffic Pattern practicing takeoffs and landings. This will help the student to develop confidence prior to Solo Cross-Country operations later in the flight course.

TASK

Safety of Flight

Aeronautical Decision Making and Risk Management

Collision Hazards

Weather Information

Performance and Limitations

Preflight Assessment

Flight Deck Management

Engine Starting

Taxiing

Before Takeoff Check

Communications, Light Signals, and Runway Lighting Systems

Traffic Patterns

Normal Takeoff and Climb

Normal Approach and Landing

Go-Around/Rejected Landing

Steep Turns

Ground Reference Maneuvers

Maneuvering During Slow Flight

Power-Off Stalls

Power-On Stalls

After Landing, Parking and Securing

Notes: 1.0 Hrs. Solo Flight Training (Suggested)

- The student must meet the requirements of 14 CFR Part 141 Appendix B(5)(a)(2): Three takeoffs and three landings to a full stop (with each landing involving a flight in the Traffic Pattern) at an airport with an operating control tower before this lesson can be completed.
- This lesson may be completed out of lesson order after lesson 37 is completed but must be completed before lesson 46 is attempted.

Completion Standard

The student successfully completes a 1.0-hour solo flight in the Traffic Pattern in accordance with the Pro Standards FOM, Pro Standards Standardization Manual, and Pro Standards SOPA.

SECTION 10

CROSS-COUNTRY AND NIGHT TRAINING

Objective

To teach the student the aeronautical knowledge and skill associated with Cross-Country and Night Preparation, including performance and limitations, weather information, cross-country flight planning, national airspace system, pilotage and dead reckoning, diversions, lost procedures, Night Preparation and night preparation.

Suggested Completion Time

Ground Briefing: 6.9 hrs.

Dual Flight Training: 8.0 hrs.

Solo Flight Training 3.0 hrs.

LESSON 8 AIRPORT OPERATIONS

OBJECTIVES: Exhibits knowledge of safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence; runway incursion avoidance and land and hold short operations; radio communications procedures; radar and ATC services and preflight action including how to obtain information on runway lengths at airports of intended use.

UNIT 18 AIRPORT OPERATIONS

DISCUSS:

- 1. Towered and Non-Towered Airports**
- 2. Sources for Airport Data**
- 3. Airport Markings and Signs**
- 4. Airport Lighting**
- 5. Wind Direction Indicators**
- 6. Traffic Patterns**

UNIT 19 RADIO COMMUNICATIONS

DISCUSS:

- 1. Phraseology**
- 2. Phonetic Alphabet**
- 3. Air Traffic Control Services**
- 4. Lost Communication Procedures**

UNIT 20 SAFE AND EFFICIENT OPERATION OF AIRCRAFT

DISCUSS:

- 1. Collision Avoidance**
- 2. Wake Turbulence Avoidance**
- 3. Runway Incursion Avoidance**
- 4. Land and Hold Short Operations (LAHSO)**
- 5. Controlled Flight Into Terrain (CFIT)**

LESSON 40 - GROUND BRIEFING (GND)

Objectives

The instructor will introduce the aeronautical knowledge and skills required to conduct Cross-Country planning, Airport Operations in accordance with the Pro Standards Standardization Manual with reference to the PHAK and the applicable POH.

TASK

Aviation Security

Weather Information

Notices to Airmen

Cross-Country Flight Planning

National Airspace System

Performance and Limitations

Pilotage and Dead Reckoning

Airport Operations

Notes: 2.0 Hrs. Ground Briefing (Suggested)

- Airport Operations includes Communications, Light Signals, and Runway Lighting Systems and Traffic Patterns for both non-towered and towered airports.

Completion Standard

The student demonstrates an understanding of the skills required to successfully plan Cross-Country flights and conduct Cross-Country Operations in accordance with the Pro Standards Standardization Manual, the PHAK, and the applicable POH to the standards prescribed in the Private Pilot Airplane Airman Certification Standards.

LESSON 11 CROSS COUNTRY FLIGHT PLANNING

OBJECTIVES: Exhibits knowledge of aeronautical charts for VFR navigation using pilotage, dead reckoning, and navigation systems; and preflight action that includes how to obtain information on runway lengths at airports of intended use, data on takeoff and landing distances, weather reports and forecasts, and fuel requirements and how to plan for alternatives if the planned flight cannot be completed or delays are encountered.

UNIT 26 AERONAUTICAL CHARTS

DISCUSS:

- 1. Types of Charts**
- 2. Latitude and Longitude**
- 3. Chart Symbolology**
- 4. Plotting Courses**

UNIT 27 INTRODUCTION TO CROSS COUNTRY PLANNING

DISCUSS:

- 1. Flight Planning Considerations**
- 2. Structure of a Flight Plan**
- 3. Checkpoint Identification**

UNIT 28 CROSS COUNTRY PERFORMANCE CHARTS

DISCUSS:

- 1. Pilot Information Manual**
- 2. Performance Calculations**

UNIT 29 FLIGHT COMPUTER CALCULATIONS

DISCUSS:

- 1. Effect of Wind**
- 2. Conversions**
- 3. Speed, Distance, and Time Computations**
- 4. Fuel Computations**
- 5. True Airspeed and Density Altitude**
- 6. Determining Magnetic Heading and Groundspeed**
- 7. Determining Wind Direction and Speed**

UNIT 30 PILOTAGE AND DEAD RECKONING

DISCUSS:

- 1. Pilotage and Dead Reckoning**

UNIT 31 LAB -- COMPLETE A FLIGHT PLAN AND DISCUSS:

- 1. Navigation log**
- 2. Filing a flight plan**

LESSON 41 - CROSS-COUNTRY FLIGHT (DUAL XC)

Objectives

This shorter duration Cross-Country will serve as the student's introduction to learning to apply the techniques discussed previously. The student will learn how to operate the aircraft during Cross-Country Operations, to include Flight Planning, Pilotage and Dead Reckoning, and Navigation Systems and Radar Services. Firelight should not be used on this lesson.

TASK

Safety of Flight

Aeronautical Decision Making and Risk Management

Collision Hazards

Runway Incursion Avoidance

Weather Information

Cross-Country Flight Planning

Performance and Limitations

Preflight Assessment

Flight Deck Management

Engine Starting

Taxiing

Before Takeoff Check

Airport Operations

Communications, Light Signals, and Runway Lighting Systems

Traffic Patterns

Normal Takeoff and Climb

Normal Approach and Landing

Pilotage and Dead Reckoning

Navigation Systems and Radar Services

Straight-and-Level Flight

Constant Airspeed Climbs

Constant Airspeed Descents

Turns to Headings

Recovery from Unusual Flight Attitudes

Radio Communications, Navigation Systems/Facilities, and Radar Services

After Landing, Parking and Securing

Notes: 2.0 Hrs. Dual Flight Training and 0.8 hrs. Pre and Post Briefing (Suggested)

- This lesson includes 0.4 hours of instrument training to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (iii): three hours of instrument training in a single-engine airplane.

Completion Standard

Student demonstrates an understanding of the requirements and procedures to conduct Cross-Country operations by performing all tasks in accordance with the Pro Standards Standardization Manual to the standards prescribed in the Private Pilot Airplane Airman Certification Standards.

LESSON 42 - GROUND BRIEFING (GND) Objectives

The student will further review the techniques of Cross-Country operations while additionally learning how to conduct Diversions. The instructor will also introduce the required knowledge and skills for Night Preparation and conducting night operations in accordance with the Pro Standards Standardization Manual and the PHAK.

TASK

Safety of Flight

Collision Hazards

Controlled Flight into Terrain Awareness

Situational Awareness

Wire Strike Avoidance

Cross-Country Flight Planning

Human Factors

Navigation Systems and Radar Services

Diversion

Lost Procedures

Inadvertent Flight into Instrument Meteorological Conditions

Night Preparation

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

Student demonstrates an understanding of the aeronautical knowledge present in the AFH, PHAK, and Pro Standards Standardization Manual required for both Night Operations and Cross-Country Flight Planning and operations.

LESSON 12 ADVANCED NAVIGATION

OBJECTIVE: Exhibit knowledge of navigation systems, lost procedures and how to plan for alternatives if the planned flight cannot be completed or delays are encountered.

UNIT 32 RADIO NAVIGATION

DISCUSS:

- 1. VHF Omni-Directional Range (VOR)**
- 2. Horizontal Situation Indicator (HSI)**
- 3. Radio Magnetic Indicator (RMI)**
- 4. Non-Directional Radio Beacon (NDB) and Automatic Direction Finder (ADF)**

UNIT 33 GPS NAVIGATION

DISCUSS:

- 1. GPS System**
- 2. Using GPS for VFR Operations**
- 3. VFR Waypoints**

UNIT 34 LOST AND DIVERSION PROCEDURES

DISCUSS:

- 1. Lost Procedures**
- 2. Diversion Procedures**

LESSON 43 - NIGHT FLIGHT (DUAL NT) Objectives

This flight will serve as the student's first opportunity to apply the skills required to operate during night conditions. The instructor and student will focus on night operations in the Traffic Pattern to familiarize the student with flying at night including landings. The student will complete 6 takeoffs and 6 landings to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (ii) (B).

TASK

Safety of Flight

Aeronautical Decision Making and Risk Management

Collision Hazards

Controlled Flight into Terrain Awareness

Weather Information

Performance and Limitations

Human Factors

Preflight Assessment

Flight Deck Management

Engine Starting

Taxiing

Before Takeoff Check

Communications, Light Signals, and Runway Lighting Systems

Traffic Patterns

Airport, Taxiway, and Runway Signs and Markings

Normal Takeoff and Climb

Normal Approach and Landing

Night Preparation

After Landing, Parking and Securing

Notes: 1.0 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson includes 6 takeoffs and 6 landings to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (ii) (B): ten takeoffs and ten landings to a full stop (with each landing involving a flight in the Traffic Patterns) at an airport.

This lesson includes 1.0 hour of night flight training to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (ii): three hours of night flight training in a single-engine airplane.

Completion Standard

The student demonstrates the aeronautical skills required to operate the aircraft safely during night conditions by performing all of the tasks to the standards prescribed in the Private Pilot Airplane Airman Certification Standards.

LESSON 44 - CROSS-COUNTRY NIGHT FLIGHT (DU NT XC) Objectives

Develop the student's aeronautical knowledge and skills required for night operations by performing a Cross-Country flight at night. Additionally, the student will develop skills required for Cross-Country flying and will perform 4 takeoffs and landings at night.

Safety of Flight

Aeronautical Decision Making and Risk Management

Collision Hazards

Controlled Flight into Terrain Awareness

Weather Information

Cross-Country Flight Planning

Performance and Limitations

Human Factors

Preflight Assessment

Flight Deck Management

Engine Starting

Taxiing

Before Takeoff Check

Communications, Light Signals, and Runway Lighting Systems

Traffic Patterns

Airport, Taxiway, and Runway Signs and Markings

Normal Takeoff and Climb

Normal Approach and Landing

Pilotage and Dead Reckoning

Diversion

Lost Procedures

Straight-and-Level Flight

Constant Airspeed Climbs

Constant Airspeed Descents

Turns to Headings

Radio Communications, Navigation Systems/Facilities, and Radar Services

Systems and Equipment Malfunction

Night Preparation

After Landing, Parking and Securing

Notes: 2.0 Hrs. Dual Flight Training and 0.8 hrs. Pre and Post Briefing (Suggested)

- This night dual cross-country flight must satisfy the requirements of 14 CFR Part 141 Appendix B(4)(b)(1)(ii)(A): A dual cross-country flight of at least 100 nautical miles total distance at night; Four takeoffs and landings from this lesson will be credited towards the requirements of 14 CFR Part 141 Appendix B(4)(b)(1)(ii)(B): 10 takeoffs and 10 landings to a full stop (with each landing involving a flight in the Traffic Patterns) at an airport.; This lesson includes 0.4 hours of instrument training to be credited towards the requirements of 14 CFR Part 141 Appendix B(4)(b)(1)(iii): three hours of instrument training in a single-engine airplane.; This lesson includes 2.0 hours of night flight training to be credited towards the requirements of 14 CFR Part 141 Appendix B(4)(b)(1)(ii): three hours of night flight training in a single-engine airplane."

Completion Standard

The student demonstrates the aeronautical skills required to operate the aircraft safely during Night Cross-Country operations by performing all of the tasks to the standards prescribed in the Private Pilot Airplane Airman Certification Standards.

LESSON 45 - CROSS-COUNTRY FLIGHT WITH FOREFLIGHT (DUAL XC)

Objectives

This flight will serve as the final Dual Cross-Country flight and as the final opportunity for the student to practice and demonstrate the skills necessary to operate the aircraft safely during Cross-Country operations as well as verifying the student's readiness to perform a Solo Cross-Country flight.

- Safety of Flight**
- Aeronautical Decision Making and Risk Management**
- Collision Hazards**
- Weather Information**
- Cross-Country Flight Planning**
- Performance and Limitations**
- Preflight Assessment**
- Flight Deck Management**
- Engine Starting**
- Taxiing**
- Before Takeoff Check**
- Communications, Light Signals, and Runway Lighting Systems**
- Traffic Patterns**
- Normal Takeoff and Climb**
- Normal Approach and Landing**
- Pilotage and Dead Reckoning**
- Navigation Systems and Radar Services**
- Diversion**
- Lost Procedures**
- Straight-and-Level Flight**
- Constant Airspeed Climbs**
- Constant Airspeed Descents**
- Turns to Headings**
- Recovery from Unusual Flight Attitudes**
- Radio Communications, Navigation Systems/Facilities, and Radar Services**
- Emergency Approach and Landing (Simulated)**
- Systems and Equipment Malfunction**
- Emergency Equipment and Survival Gear**
- After Landing, Parking and Securing**

Notes: 3.0 Hrs. Dual Flight Training and 0.8 hrs. Pre and Post Briefing (Suggested)

- This dual cross-country flight must satisfy the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (i): Three hours of cross-country flight training in a single-engine airplane.

Completion Standard

The student demonstrates the required knowledge and skills to safely operate the aircraft during Solo Cross-Country operations by performing all the tasks in accordance with the Pro Standards FOM, Pro Standards Standardization Manual, and Pro Standards SOPA to the standards prescribed in the Private Pilot Airplane Airman Certification Standards.

LESSON 46 - SOLO CROSS-COUNTRY FLIGHT (SOLO XC) Objectives

The student will complete a Solo Cross-Country that meets the requirements of 14 CFR Part 141 Appendix B Section 5(a): A Solo Cross-Country flight of at least 100 nautical miles total distance, with full-stop landings at a minimum of three points, and one segment of the flight consisting of a straight-line distance of at least 50 nautical miles between the takeoff and landings locations.

TASK

- Safety of Flight**
- Aeronautical Decision Making and Risk Management**
- Collision Hazards**
- Weather Information**
- Cross-Country Flight Planning**
- Performance and Limitations**
- Preflight Assessment**
- Flight Deck Management**
- Engine Starting**
- Taxiing**
- Before Takeoff Check**
- Communications, Light Signals, and Runway Lighting Systems**
- Traffic Patterns**
- Normal Takeoff and Climb**
- Normal Approach and Landing**
- Pilotage and Dead Reckoning**
- Navigation Systems and Radar Services**
- After Landing, Parking and Securing**

Notes: 3.0 Hrs. Solo Flight Training (Suggested)

- This solo cross-country flight must satisfy the requirements of 14 CFR Part 141 Appendix B Section 5(a): A solo cross-country flight of at least 100 nautical mile total distance, with full-stop landings at a minimum of three points, and one segment of the flight consisting of a straight-line distance of at least 50 nautical miles between the takeoff and landing locations.

This lesson may be completed out of lesson order after lesson 45 is completed but must be completed before lesson 50 is attempted."

Completion Standard

The student demonstrates the ability to safely operate the aircraft in Solo Cross-Country operations by successfully completing a flight meeting the requirements of 14 CFR Part 141 Appendix B Section 5(a).

SECTION 11

STAGE REVIEW Objective

To review and further develop the student's aeronautical knowledge and skill of the required private pilot tasks.

Suggested Completion Time Ground Briefing: 3.0 hrs.

Dual Flight Training: 2.8 hrs.

LESSON 47 - GROUND BRIEFING (GND) Objectives

The instructor will review and evaluate the student's aeronautical knowledge to determine that he/she is adequately prepared for the Stage 2 Stage Check and End-Of-Course Evaluations.

TASK

- Safety of Flight**
- Pilot Qualifications**
- Airworthiness Requirements**
- Weather Information**
- Cross-Country Flight Planning**
- National Airspace System**
- Performance and Limitations**
- Operation of Systems**
- Human Factors**
- Emergency Equipment and Survival Gear**
- Night Preparation**
- Review Written Stage Exam**
- Review FAA Knowledge Test Deficient Areas**

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

Student demonstrates an understanding of the required aeronautical knowledge required by completing all the tasks to the standard prescribed by the Private Pilot-Airplane ACS and demonstrates an understanding of all required references to include the PHAK, AFH, applicable POH, and the FAR/AIM.

LESSON 48 - FLIGHT (DUAL) Objectives

The instructor will review and evaluate the student's aeronautical skills to determine that he/she is adequately prepared for the Stage 2 Stage Check and End-Of-Course Evaluations.

TASK

- Preflight Assessment**
- Flight Deck Management**
- Engine Starting**
- Taxiing**
- Before Takeoff Check**
- Communications, Light Signals, and Runway Lighting Systems**
- Traffic Patterns**
- Normal Takeoff and Climb**
- Normal Approach and Landing**
- Soft-Field Takeoff and Climb**
- Soft-Field Approach and Landing**
- Short-Field Takeoff and Maximum Performance Climb**
- Short-Field Approach and Landing**
- Forward Slip to a Landing**
- Go-Around/Rejected Landing**
- Steep Turns**
- Ground Reference Maneuvers**
- Pilotage and Dead Reckoning**
- Navigation Systems and Radar Services**
- Diversion**
- Lost Procedures**
- Maneuvering During Slow Flight**
- Power-Off Stalls**
- Power-On Stalls**
- Spin Awareness**
- Straight-and-Level Flight**
- Constant Airspeed Climbs**
- Constant Airspeed Descents**
- Turns to Headings**
- Recovery from Unusual Flight Attitudes**
- Radio Communications, Navigation Systems/Facilities, and Radar Services**
- Emergency Descent**
- Emergency Approach and Landing (Simulated)**
- Systems and Equipment Malfunction**
- Emergency Equipment and Survival Gear**
- After Landing, Parking and Securing**

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson includes 0.4 hours of instrument training to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (iii): three hours of instrument training in a single-engine airplane."

Completion Standard

Student demonstrates the required aeronautical skills required by completing all the tasks to the standard prescribed by the Private Pilot Airplane Airman Certification Standards in accordance with the Pro Standards Standardization Manual and Pro Standards SOPA.

LESSON 49 - FLIGHT (DUAL) Objectives

The instructor will review and evaluate the student's aeronautical skills to determine that he/she is adequately prepared for the Stage 2 Stage Check and End-Of-Course Evaluations.

TASK

- Preflight Assessment
- Flight Deck Management
- Engine Starting
- Taxiing
- Before Takeoff Check
- Communications, Light Signals, and Runway Lighting Systems
- Traffic Patterns
- Normal Takeoff and Climb
- Normal Approach and Landing
- Soft-Field Takeoff and Climb
- Soft-Field Approach and Landing
- Short-Field Takeoff and Maximum Performance Climb
- Short-Field Approach and Landing
- Forward Slip to a Landing
- Go-Around/Rejected Landing
- Steep Turns
- Ground Reference Maneuvers
- Pilotage and Dead Reckoning
- Navigation Systems and Radar Services
- Diversion
- Lost Procedures
- Maneuvering During Slow Flight
- Power-Off Stalls
- Power-On Stalls
- Spin Awareness
- Straight-and-Level Flight
- Constant Airspeed Climbs
- Constant Airspeed Descents
- Turns to Headings
- Recovery from Unusual Flight Attitudes
- Radio Communications, Navigation Systems/Facilities, and Radar Services
- Emergency Descent
- Emergency Approach and Landing (Simulated)
- Systems and Equipment Malfunction
- Emergency Equipment and Survival Gear
- After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson shall be used as a final review prior to the student's stage check. Tasks in this lesson may be omitted at the discretion of the instructor pilot."

Completion Standard

Student demonstrates the required aeronautical skills required by completing all the tasks to the standard prescribed by the Private Pilot Airplane Airman Certification Standards in accordance with the Pro Standards Standardization Manual and Pro Standards SOPA.

SECTION 12

STAGE 2 CHECK Objective

To determine, through a stage check consisting of both oral and flight tests, that the student has the necessary aeronautical knowledge and skill to safely conduct flight operations as an FAA certificated Private Pilot.

Suggested Completion Time Ground Briefing: 2.5 hrs.

Dual Flight Training: 1.6 hrs.

LESSON 50 - STAGE 2 CHECK GROUND BRIEFING (GND SC) Objectives

To determine through oral evaluation that the student possesses the required aeronautical knowledge to safely conduct flight operations as an FAA certificated Private Pilot.

TASK

- Pilot Qualifications**
- Airworthiness Requirements**
- Weather Information**
- Cross-Country Flight Planning**
- National Airspace System**
- Performance and Limitations**
- Operation of Systems**
- Human Factors**
- Night Preparation**

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

The student demonstrates an understanding of the required aeronautical knowledge to safely conduct flight operations as an FAA certificated Private Pilot by meeting the standards prescribed in the Private Pilot Airplane Airman Certification Standards.

LESSON 51 - STAGE 2 CHECK FLIGHT (FLT SC) Objectives

To determine through flight evaluation that the student possesses the required aeronautical skills to safely conduct flight operations as an FAA certificated Private Pilot.

TASK

- Preflight Assessment**
- Flight Deck Management**
- Engine Starting**
- Taxiing**
- Runway Incursion Avoidance**
- Before Takeoff Check**
- Communications, Light Signals, and Runway Lighting Systems**
- Traffic Patterns**
- Normal Takeoff and Climb**
- Normal Approach and Landing**
- Soft-Field Takeoff and Climb**
- Soft-Field Approach and Landing**
- Short-Field Takeoff and Maximum Performance Climb**
- Short-Field Approach and Landing**
- Forward Slip to a Landing**
- Go-Around/Rejected Landing**
- Steep Turns**
- Ground Reference Maneuvers**
- Pilotage and Dead Reckoning**
- Navigation Systems and Radar Services**
- Diversion**
- Lost Procedures**
- Maneuvering During Slow Flight**
- Power-Off Stalls**
- Power-On Stalls**
- Spin Awareness**
- Straight-and-Level Flight**
- Constant Airspeed Climbs**
- Constant Airspeed Descents**
- Turns to Headings**
- Recovery from Unusual Flight Attitudes**
- Radio Communications, Navigation Systems/Facilities, and Radar Services**
- Emergency Descent**
- Emergency Approach and Landing (Simulated)**
- Systems and Equipment Malfunction**
- Emergency Equipment and Survival**
- After Landing, Parking and Securing**

Notes: 1.6 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson includes 0.2 hours of instrument training to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (iii): three hours of instrument training in a single-engine airplane."

Completion Standard

The student demonstrates the required aeronautical skills to safely conduct flight operations as an FAA certificated Private Pilot by meeting the standards prescribed in the Private Pilot-Airplane ACS on all tasks.

SECTION 13

COURSE REVIEW Objective

To review Tasks previously graded as unsatisfactory or minimum on the Stage 2 Checks.

Suggested Completion Time Ground Briefing: 0.0 hrs.

Dual Simulator Training: .3 hrs.

Notes: Lesson 52 and 53 will at a minimum require review of Cross-Country Flight Planning, Systems and Equipment Malfunction, and any Unsatisfactory or Minimum Tasks from the Stage 2 check by demonstrating at least a “Good” grade on each task.

LESSON 13 REVIEW AND COURSE EXAM

OBJECTIVES: Effectively review, evaluate, and summarize course content.

UNIT 35 COURSE REVIEW

REVIEW:

1. Private Pilot Knowledge Areas

UNIT 36 COURSE EXAM

1. Course Exam
2. Critique

LESSON 52 - GROUND BRIEFING (GND) Objectives

The instructor will review and evaluate the student's aeronautical knowledge to determine that he/she is adequately prepared for the End-Of-Course Evaluation by reviewing previously Unsatisfactory and Minimum performance from the Stage 2 Check.

TASK

Cross-Country Flight Planning

Review Unsatisfactory and Minimum tasks from the Stage 2 Check.

Notes: 0 Hrs. Ground Briefing (Suggested)

- The Instructor will document and grade the Tasks that are reviewed in the students training record."

Completion Standard

Student demonstrates an understanding of the required aeronautical knowledge required by completing all the tasks to the standard prescribed by the Private Pilot Airplane ACS and demonstrates an understanding of all required references to include the PHAK, AFH, applicable POH, and the FAR/AIM.

LESSON 53 - SIMULATOR (SIM) Objectives

The instructor will review and evaluate the student's aeronautical skills to determine that he/she is adequately prepared for the End-Of-Course Evaluation by reviewing previously Unsatisfactory and Minimum performance from the Stage 2 Check.

TASK

Systems and Equipment Malfunction

Review Unsatisfactory and Minimum tasks from the Stage 2 Check and other tasks as determined by the flight instructor.

Notes: 1.0 hrs. Dual Simulator Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This Lesson should be completed in an airplane if the IP determines it is appropriate based on the Tasks required to be reviewed. The Instructor will document and grade the Tasks that are reviewed in the students training record."

Completion Standard

Student demonstrates the required aeronautical skills required by completing all of the tasks to the standard prescribed by the Private Pilot Airplane Airman Certification Standards in accordance with the Pro Standards Standardization Manual and Pro Standards SOPA.

SECTION 14

PRIVATE PILOT AIRPLANE SINGLE-ENGINE END-OF-COURSE TEST Objective

To determine, through an End-of-Course test consisting of both an oral and flight test, that the student has the necessary aeronautical knowledge and skill to safely and competently conduct flight operations as an FAA certificated Private Pilot.

Suggested Completion Time Ground Briefing: 2.5 hrs.

Dual Flight Training: 1.6 hrs.

LESSON 54 - END-OF-COURSE ORAL TEST (GND EOC) Objectives

To determine through oral evaluation that the student possesses the required aeronautical knowledge to safely conduct flight operations as an FAA certificated Private Pilot.

TASK

- Pilot Qualifications**
- Airworthiness Requirements**
- Weather Information**
- Cross-Country Flight Planning**
- National Airspace System**
- Performance and Limitations**
- Operation of Systems**
- Human Factors**
- Night Preparation**

Notes: 2.0 Hrs. Ground Briefing (Suggested)

Completion Standard

The student demonstrates an understanding of the required aeronautical knowledge to safely conduct flight operations as an FAA certificated Private Pilot by meeting the standards prescribed in the Private Pilot Airplane Airman Certification Standards.

LESSON 55 - END-OF-COURSE FLIGHT TEST (FLT EOC) Objectives:

To determine through flight evaluation that the student possesses the required aeronautical skills to safely conduct flight operations as an FAA certificated Private Pilot.

TASK

- Preflight Assessment
- Flight Deck Management
- Engine Starting
- Taxiing
- Runway Incursion Avoidance
- Before Takeoff Check
- Communications, Light Signals, and Runway Lighting Systems
- Traffic Patterns
- Normal Takeoff and Climb
- Normal Approach and Landing
- Soft-Field Takeoff and Climb
- Soft-Field Approach and Landing
- Short-Field Takeoff and Maximum Performance Climb
- Short-Field Approach and Landing
- Forward Slip to a Landing
- Go-Around/Rejected Landing
- Steep Turns
- Ground Reference Maneuvers
- Pilotage and Dead Reckoning
- Navigation Systems and Radar Services
- Diversion
- Lost Procedures
- Maneuvering During Slow Flight
- Power-Off Stalls
- Power-On Stalls
- Spin Awareness
- Straight-and-Level Flight
- Constant Airspeed Climbs
- Constant Airspeed Descents
- Turns to Headings
- Recovery from Unusual Flight Attitudes
- Radio Communications, Navigation Systems/Facilities, and Radar Services
- Emergency Descent
- Emergency Approach and Landing (Simulated)
- Systems and Equipment Malfunction
- Emergency Equipment and Survival Gear
- After Landing, Parking and Securing

Notes: 1.4 Hrs. Dual Flight Training and 0.5 hrs. Pre and Post Briefing (Suggested)

- This lesson includes 0.2 hours of instrument training to be credited towards the requirements of 14 CFR Part 141 Appendix B Section 4 (b) (1) (iii): three hours of instrument training in a single-engine airplane."

Completion Standard: The student demonstrates the required aeronautical skills to safely conduct flight operations as an FAA certificated Private Pilot by meeting the standards prescribed in the Private Pilot Airplane Airman Certification Standards on all tasks.

