

Chapter 2 – Private Airplane Single Engine Syllabus Flight Training Course

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Suggested Time Allocation Table

Stage	Lesson Number	Schedule Time	Ground Brief	Pre Brief	Post Brief	AATD	FTD	Aircraft	Dual	Solo	Night	X-C	Instrument Training	Stage Oral	Stage Flight	Lesson Equipment
1	1-GB	1.5	1.5													Ground
1	2-GB	2.0	2.0													Ground
1	3-DL	2.0		0.25	0.5			1.0	1.0							DA40
1	4-DL	2.0		0.25	0.3			1.2	1.2							DA40
1	5-DL	2.0		0.25	0.5			1.2	1.2							DA40
1	6-DL	2.0		0.25	0.3			1.2	1.2				0.2			DA40
1	7-GB	2.0	2.0													Ground
1	8-GB	2.5	2.5													Ground
1	9-DL	2.5		0.25	0.5			2.0	2.0				0.3			DA40
1	10-DL	2.0		0.25	0.3			1.5	1.5				0.3			DA40
1	11-DL	2.0		0.25	0.5			1.5	1.5				0.3			DA40
1	12-DL	2.0		0.25	0.5			1.5	1.5				0.3			DA40
1	13-DL	2.0		0.25	0.5			1.5	1.5							DA40
1	14-DL	2.0		0.25	0.5			1.5	1.5							DA40
1	15-DL	2.5		0.25	0.5			2.0	2.0				0.3			DA40
1	16-STO	1.0												1.0		Ground
1	17-STF	2.5		0.25	0.5			2.0	2.0				0.3		2.0	DA40
2	18-DL	2.0		0.25	0.5			1.2	1.2							DA40
2	19-DL	2.0		0.25	0.5			1.5	1.5							DA40
2	20-DL	2.0		0.25	0.5			1.5	1.5				0.3			DA40
2	21-GB	2.5	2.5													Ground
2	22-DLN	2.0		0.25	0.5			1.5	1.5		1.5					DA40
2	23-GB	1.5	1.5													Ground
2	24-DXC	3.0		0.25	0.5			2.2	2.2			2.0				DA40
2	25-DL	2.0		0.25	0.3			1.2	1.2							DA40
2	26-DXCN	2.5		0.25	0.5			2.0	2.0		2.0	1.8				DA40
2	27-DL	2.0		0.25	0.5			1.2	1.2							DA40
2	28-GB	1.0	1.0													Ground
2	29-DXC	3.5		0.25	0.5			2.5	2.5			2.3	0.3			DA40
2	30-STO	2.0												2.0		Ground
2	31-STF	3.0		0.25	0.5			2.5	2.5			2.3	0.3		2.5	DA40
3	32-DSL	3.5		0.25	0.5			3.2	0.7	2.5						DA40
3	33-DSL	3.5		0.25	0.5			3.2	0.7	2.5						DA40
3	34-DXC	3.0		0.25	0.5			2.5	2.5			2.5	0.2			DA40
3	35-SXC	3.5		0.25	0.5			3.0		3.0		3.0				DA40
3	36-SXC	3.5		0.25	0.5			3.0		3.0		3.0				DA40
3	37-GB	1.5	1.5													Ground
3	38-DL	2.5		0.25	0.5			2.0	2.0				0.3			DA40
3	39-STO	2.0												2.0		Ground
3	40-STF(EOC)	3.0		0.25	0.5			2.0	2.0				0.3		2.0	DA40
Totals		95.5	14.5	7.25	13.7			54.1	43.1	11.0	3.5	16.9	3.7	5.0	6.5	

Course Minimums

FLIGHT TRAINING	AIRCRAFT TRAINING	DUAL INSTRUCTION	AIRCRAFT SOLO
40.0	40	20.0	10.0
CROSS COUNTRY DUAL	NIGHT DUAL	NIGHT TO/LANDINGS	INSTRUMENT TRAINING
3.0	3.0	10.00	3.0

Stage 1

Stage Objective

During this first stage the student obtains the foundation for all future aviation training. The student becomes familiar with the training airplane and learns how the flight controls are used to establish and maintain specific flight attitudes. Through the introduction of new maneuvers and review, the student will gain proficiency to operate in the local training area and traffic pattern.

The **PUI** will conduct training in the following equipment as appropriate:

Advanced Aviation Training Device (**AATD**)

Flight Training Device (**FTD**)

Technical Advanced Aircraft (**TAA** - for example Cirrus/Cessna/Diamond)

Single Engine Aircraft (for example Diamond DA40)

Stage Completion Standards

At the completion of this stage, the student will demonstrate an understanding of the basic flight maneuvers introduced. The student will understand how to maintain specific flight attitudes and ground tracks. Also, the student will be prepared to solo in the local area and have the proficiency required for introduction to maximum performance takeoff and landing procedures.

Lesson 1-GB

Equipment

Briefing Room

Lesson Objective

This lesson will introduce the student to tasks that must be completed before each flight.

Lesson Content

Training Records Identity Verification Copy Photo Identification Copy Pilot Certificate Copy Medical Certificate Create Training Folder	
Stage Goals & Objective Stage 1 Overview	Introduction
Publications RVA Flyers Operations Manual RVA Flyers Online System Standardizations Manual Training Course Outline	Introduction Introduction Introduction Introduction
Aircraft Acceptance Flight Plan/Dispatch Ticket Maintenance Records Required Aircraft Inspections Required Aircraft Documents Required Pilot Documents	Introduction Introduction Introduction Introduction Introduction
Weight & Balance Aircraft Weights Center of Gravity Arm Moment Center of Gravity Envelope	Introduction Introduction Introduction Introduction Introduction
Weather Obtaining Weather Information Use of Online Weather Resources Use of Automated Weather Resources Pilot Weather Briefing	Introduction Introduction Introduction Introduction
Special Emphasis Areas Procedures for Positive Exchange of Flight	Introduction
Additional Areas As Assigned by Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have a basic understanding of the tasks introduced during the Ground Brief.

Lesson 2-GB

Equipment

Briefing Room with Cockpit Poster

Lesson Objective

This ground briefing will build on the skills introduced during lesson 1.

Lesson Content

Regulations Preflight Action	Introduction
Aircraft Performance Data Performance Charts V Speeds	Introduction Introduction
Airport Ground Operations Airport Diagrams and Geography Airport Signs, Markings, and Lighting Taxi Operations Run-up Area Operations ATC Light Gun Signals	Introduction Introduction Introduction Introduction Introduction
Radio Operations ATIS Clearance Delivery and Ground Tower Approach/Departure Practice Area Frequencies Company Frequency	Introduction Introduction Introduction Introduction Introduction Introduction
Inspections Airworthiness Directive VOR Equipment Check Annual/100 Hour Inspections Altimeter Transponder ELT Pitot Static System	Review Review Review Review Review Review Review
Certificates and Documents Airworthiness Registration Weight and Balance Aircraft Operating Handbook Radio Operators Permit	Review Review Review Review Introduction
Post Flight Procedures Post Flight Inspection Tie Down Procedures Recording Aircraft Discrepancies	Introduction Introduction Introduction

Chair flying Use/Location of Equipment Cockpit Flows CRM Practice	Introduction Introduction Introduction
Special Emphasis Areas Checklist Usage	Introduction
Additional Areas As Assigned by Instructor (If Necessary)	

Completion Standards

At the completion of this lesson the student will have a basic understanding of the tasks required during preflight preparation.

Lesson 3-DL

Equipment

DA40

Lesson Objectives

The student pilot will be introduced to flying the airplane and emphasis will be placed on a basic understanding of how to control the airplane in straight and level flight.

Lesson Content

Cockpit Familiarization Flight Controls Engine Controls	Introduction Introduction
Preflight Procedures Preflight Inspection	Introduction
Engine Start General Starting Procedures	Introduction
Taxi Operations Taxiing	Introduction
Before Takeoff Check Before Takeoff Check	Introduction
Runway Incursion Avoidance Runway Incursion Avoidance	Introduction
Straight-and-Level Flight Straight-and-Level Flight	Introduction
Checklist Usage Normal Procedures Checklist	Introduction
Approach and Landing Procedures Normal and/or Crosswind Landing	Introduction
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Introduction Introduction Introduction
Special Emphasis Areas Positive Aircraft Control	Introduction
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have gained an introductory knowledge of the aircraft systems. In addition, the student will become familiar with the aircraft control systems and how they are used to maneuver the airplane on the ground and in the air. Takeoffs and landings will be completed with instructor assistance.

Lesson 4-DL

Equipment

DA40

Lesson Objective

During this lesson, the student will continue to learn new tasks when flying the airplane. Emphasis will be placed on maintaining straight and level flight, with the introduction of trim and level turns. Additionally the student will continue to be introduced to the normal and/or crosswind approach and landing.

Lesson Content

Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures	Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight Straight-and-Level Flight Use of Trim	Review Introduction
Turns Level Turns	Introduction
Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Approach procedures	Introduction
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls Positive Aircraft Control	Introduction Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will be able to maintain straight and level flight. The student will display an increased understanding and proficiency in coordinated airplane attitude control. In addition, the student should be familiar with the control usage necessary to maintain altitude within ± 300 feet, heading within $\pm 30^\circ$, and airspeed ± 20 kts. Landings will be completed safely with Instructor assistance.

Lesson 5-DL

Equipment

DA40

Lesson Objective

During this lesson the student will review basic flight. Emphasis should be placed on maintaining straight and level flight with the use of trim.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Introduction Introduction Introduction Introduction Introduction
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures	Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight Straight-and-Level Flight Use of Trim	Review Review
Turns Level Turns	Review
Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Landing	Review
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review

Special Emphasis Areas Positive Exchange of Flight Controls Positive Aircraft Control	Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will be able to maintain straight and level flight unassisted. The student will display an increased understanding and proficiency in coordinated airplane attitude control. In addition, the student should be familiar with the control usage necessary to maintain altitude within ± 300 feet, heading within $\pm 30^\circ$, and airspeed ± 20 kts.

Lesson 6-DL

Equipment

DA40

Lesson Objective

During this lesson, the student will continue to learn new tasks when flying the airplane. The student will be introduced to climbs, descents, and turns using different power settings. Additionally the student will be introduced to flight by reference to instruments. Emphasis will be placed on maintaining straight and level flight while using trim and level turns.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures	Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Introduction
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight Straight-and-Level Flight Use of Trim	Review Review
Climbs Constant Airspeed Climbs	Introduction
Descents Constant Airspeed Descents	Introduction
Flight by Reference to Instruments Straight and Level Flight	Introduction
Turns Level Turns	Review

Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Approach Procedures Go-Around/Rejected Approach Procedures	Review Introduction
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will be able to maintain straight and level flight with the use of trim and able to make level turns. The student will display an increased understanding and proficiency in coordinated airplane attitude control. In addition, the student should be familiar with the control usage necessary to maintain altitude within ± 300 feet, heading within $\pm 30^\circ$, and airspeed ± 20 kts for all flight maneuvers.

Lesson 7-GB

Equipment

Briefing Room

Lesson Objective

During this ground brief, the student will be introduced to aircraft systems and weather observations and forecasts as it would relate to a local VFR flight.

Lesson Content

Operation of Systems Engine Fuel System Electrical System Primary Flight Controls and Trim Flaps Propeller Landing Gear Hydraulic Electrical Avionics Pitot-Static System Vacuum System Environmental Deicing and Anti-Icing	Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction
Inoperative Equipment Required Equipment Minimum Equipment List Operating with and without an MEL	Introduction Introduction Introduction
Weather METAR Terminal Aerodrome Forecasts (TAF) Area Forecasts (FA) PIREPs Weather Briefings	Introduction Introduction Introduction Introduction Introduction
Special Emphasis Areas Runway Incursion Avoidance Collision Avoidance Wake Turbulence Avoidance	Introduction Introduction Introduction
Additional Areas As Assigned by Instructor (If Necessary)	

Completion Standards

At the completion of this lesson the student will have basic knowledge of the tasks discussed and display the ability to analyze local weather observations and forecasts to make a competent “go/no-go” decision.

Lesson 8-GB

Equipment

Briefing Room

Lesson Objective

During this lesson the Flight Instructor and student will discuss publications, the national airspace system and traffic pattern operations in detail.

Lesson Content

Publications Chart Currency Sectional Charts Terminal Area Charts Use of AFD Private Pilot PTS	Introduction Introduction Introduction Introduction Introduction
National Airspace System Controlled/Uncontrolled Class A, B, C, D, E, G Special Use Airspace Other Use Airspace	Introduction Introduction Introduction Introduction
Traffic Pattern Operations Traffic Pattern Legs Checklist/Power Settings	Introduction Introduction
Maneuvers Stalls Slow Flight Steep Turns Ground Reference Maneuvers	Introduction Introduction Introduction Introduction
Landing Clearances Cleared to Land Cleared for the Option Cleared Touch and Go Cleared Stop and Go Cleared Low Approach	Introduction Introduction Introduction Introduction Introduction
Special Emphasis Areas Aeronautical Decision Making (ADM) Land and Hold Short Operations (LAHSO)	Introduction Introduction
Additional Areas As Assigned by Instructor (If Necessary)	

Completion Standards

At the completion of this lesson the student will have increased knowledge in all the subject areas listed above.

Lesson 9-DL

Equipment

DA40

Lesson Objective

During this lesson, the student will continue to learn new tasks when flying the airplane. The student will be introduced to ground reference maneuvers and steep turns. Emphasis will be placed on maintaining straight and level flight while using trim and level turns as well as procedures.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures	Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight (VR/IR) Straight-and-Level Flight Use of Trim	Review Review
Climbs (VR/IR) Constant Airspeed Climbs	Introduction
Descents (VR/IR) Constant Airspeed Descents	Introduction

Ground Reference Maneuvers Rectangular Course Turns Around a Point S-Turns	Introduction Introduction Introduction
Steep Turns Steep Turns	Introduction
Turns Level Turns	Review
Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Landing Go-Around/Rejected Landing	Review Review
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls Wake Turbulence Avoidance	Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will understand the coordinated control inputs required to maintain a specific ground track. In addition, the student will maintain altitude within ± 200 feet and headings within $\pm 20^\circ$ during straight-and-level flight. Normal taxiing will be performed without instructor assistance. Takeoffs, landings and go-arounds will be performed with minimal instructor assistance and held to -100 to + 700 feet within a specified touchdown point. While performing BAI training, the student will maintain ± 300 feet altitude, $\pm 30^\circ$ heading, and ± 20 kts.

Lesson 10-DL

Equipment

DA40

Lesson Objective

During this lesson, the student will continue to learn new tasks when flying the airplane. The student will be introduced to slow flight and stalls. Emphasis will be placed on maintaining straight and level flight while using trim and level turns as well as procedures.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures	Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight Straight-and-Level Flight Use of Trim	Review Review
Climbs (VR/IR) Constant Airspeed Climbs	Review
Descents (VR/IR) Constant Airspeed Descents	Review
Ground Reference Maneuvers Rectangular Course Turns Around a Point S-Turns	Review Review Review

Steep Turns Steep Turns	Review
Slow Flight Pitch/Airspeed Control Power/Altitude Control Climbs/Turns/Descents	Introduction Introduction Introduction
Stalls Power-Off Stalls Power-On Stalls	Introduction Introduction
Turns (VR/IR) Level Turns Compass Turns Turns to Headings	Introduction Introduction Introduction
Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Approach Procedures Go-Around/Rejected Approach Procedures	Review Review
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls Stall/Spin Awareness	Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will understand the coordinated control inputs required to maintain a specific ground track. In addition, the student will maintain altitude within ± 200 feet and headings within $\pm 20^\circ$ during straight-and-level flight. The student should recognize and recover from stalls properly. Normal taxiing will be performed without instructor assistance. Takeoffs, landings and go-arounds will be performed with minimal instructor assistance and held to -100 to + 700 feet within a specified touchdown point. While performing BAI training, the student will maintain ± 300 feet altitude, $\pm 30^\circ$ heading, and ± 20 kts.

Lesson 11-DL

Equipment

DA40

Lesson Objective

During this lesson, the student will review the flight maneuvers. Emphasis will be placed on maintaining straight and level flight while using trim and level turns as well as procedures.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures	Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight (VR/IR) Straight-and-Level Flight Use of Trim	Review Review
Climbs Constant Airspeed Climbs	Review
Descents Constant Airspeed Descents	Review
Ground Reference Maneuvers Rectangular Course Turns Around a Point S-Turns	Review Review Review
Step Turns Step Turns	Review

Slow Flight Pitch/Airspeed Control Power/Altitude Control Climbs/Turns/Descents	Review Review Review
Stalls Power-Off Stalls Power-On Stalls	Review Review
Turns (VR/IR) Level Turns Compass Turns Turns to Headings	Review Review Review
Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Landing Go-Around/Rejected Landing	Review Review
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls Stall/Spin Awareness	Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student should demonstrate increased skill in instrument scan and interpretation during instrument flight. The student should perform unassisted takeoffs; however, landings and go-arounds should be performed with minimal instructor assistance with -0 to +600 feet from specified touchdown point to be maintained. In addition, altitude should be maintained within ± 200 feet, heading within $\pm 15^\circ$, and airspeed within ± 15 knots. During BAI training, the student will maintain ± 300 feet altitude, $\pm 30^\circ$ heading, and ± 20 kts airspeed.

Lesson 12-DL

Equipment

DA40

Lesson Objective

During this lesson the student will be introduced to traffic pattern operations and emergency operations. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures Hot Start Procedures Engine Fire On Start Procedures	Review Introduction Introduction
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight Straight-and-Level Flight Use of Trim	Review Review
Emergency/Abnormal Procedures Alternator Failure Engine Failure in Flight Emergency Descent	Introduction Introduction Introduction
Climbs Constant Airspeed Climbs	Review

Descents Constant Airspeed Descents	Review
Traffic Pattern Operations Traffic Pattern Entries Traffic Pattern Departures Wind Drift	Introduction Introduction Introduction
Turns Level Turns	Review
Checklist Usage Normal Procedures Checklist Abnormal Checklist Usage Emergency Checklist Usage	Review Introduction Introduction
Approach and Landing Procedures Normal and/or Crosswind Landing Forward Slip Go-Around/Rejected Landing Emergency Approach Procedures	Review Introduction Review Introduction
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls Wake Turbulence Avoidance Stall/Spin Awareness	Review Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student should demonstrate increased skill in instrument scan and interpretation during instrument flight. Normal takeoffs shall be done without any physical instructor assistance; however, landings and go-arounds may be performed with minimal instructor assistance and kept within -0 to +600 feet of a specified touchdown point. In addition, altitude should be maintained within ± 200 feet, heading within $\pm 15^\circ$ and airspeed within ± 10 knots during visual operations. During basic instrument maneuvers, the student shall maintain positive control of the aircraft at all times and maintain altitude within ± 300 feet, heading within $\pm 30^\circ$ and airspeed within ± 20 knots.

Lesson 13-DL

Equipment

DA40

Lesson Objective

During this lesson the student will practice takeoffs and landings to gain proficiency and build confidence for flight in the traffic pattern.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures	Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight Straight-and-Level Flight Use of Trim	Review Review
Flight by Reference to Instruments Straight and Level Flight	Review
Climbs Constant Airspeed Climbs	Review
Descents Constant Airspeed Descents	Review
Ground Reference Maneuvers Rectangular Course Turns Around a Point S-Turns	Review Review Review

Steep Turns Steep Turns	Review
Slow Flight Pitch/Airspeed Control Power/Altitude Control Climbs/Turns/Descents	Review Review Review
Stalls Power-Off Stalls Power-On Stalls	Review Review
Turns Level Turns	Review
Turns (IR) Turns to Headings	Review
Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Landing Go-Around/Rejected Landing	Review Review
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls Wake Turbulence Avoidance Land and Hold Short Operations (LAHSO) Stall/Spin Awareness	Review Review Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student shall demonstrate correct radio communications and traffic pattern procedures at an airport. In addition, the student will demonstrate the proper takeoff and landing techniques utilizing proper crosswind corrections with very minimal instructor input on landings in order to maintain -0 to + 600 feet of a specified touchdown point. In addition, altitude should be maintained within ± 200 feet, heading within $\pm 15^\circ$ and airspeed within ± 10 knots during visual operations. During basic instrument maneuvers, the student shall maintain positive control of the aircraft at all times and maintain altitude within ± 300 feet, heading within $\pm 30^\circ$ and airspeed within ± 20 knots.

Lesson 14-DL

Equipment

DA40

Lesson Objective

During this lesson the student will practice the listed maneuvers to gain proficiency in the traffic pattern.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Cockpit Familiarization Flight Controls Engine Controls	Review Review
Preflight Procedures Preflight Inspection	Review
Engine Start General Starting Procedures Hot Start Procedures	Review Review
Taxi Operations Taxiing	Review
Before Takeoff Check Before Takeoff Check	Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Runway Incursion Avoidance Runway Incursion Avoidance	Review
Straight-and-Level Flight Straight-and-Level Flight Use of Trim	Review Review
Climbs Constant Airspeed Climbs	Review
Descents Constant Airspeed Descents	Review
Traffic Pattern Operations Traffic Pattern Entries Traffic Pattern Departures Wind Drift	Review Review Review

Turns Level Turns	Review
Checklist Usage Normal Procedures Checklist	Review
Approach and Landing Procedures Normal and/or Crosswind Landing Forward Slip Go-Around/Rejected Landing	Review Review Review
Postflight Operations After Landing Parking Aircraft Securing Aircraft	Review Review Review
Special Emphasis Areas Positive Exchange of Flight Controls Wake Turbulence Avoidance Land and Hold Short Operations (LAHSO) Stall/Spin Awareness	Review Review Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student shall demonstrate the ability to recognize and recover from full stalls and perform all takeoffs and most landings with minimal to no instructor assistance in order to maintain -0 to +600 feet of a specified touchdown point. In addition, the student should maintain altitude within ± 150 feet, airspeed ± 10 knots and heading within $\pm 15^\circ$.

Lesson 15-DL

Equipment

DA40

Lesson Objective

During this lesson the student will practice the listed maneuvers to gain proficiency in the traffic pattern and prepare for the stage check flight. The student will plan a flight in the local area while using pilotage to maintain situational awareness.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Engine Start General Starting Procedures Engine Fire On Start Procedures	Review Review
Taxi Operations Taxiing	Review
Before Takeoff Check Engine Check Instrument Check	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Traffic Pattern Operations Traffic Pattern Procedures Wind Drift	Review Review
Flight by Reference to Instruments Straight and Level Flight	Review
Steep Turns Steep Turns	Review
Turns (IR) Turns to a Heading	Review
Slow Flight Pitch/Airspeed Control Power/Altitude Control Climbs/Turns/Descents	Review Review Review

Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist	Review Review Review
Stalls Power-Off Stalls Power-On Stalls	Review Review
Emergency / Abnormal Procedures Systems and Equipment Malfunctions Engine Failure in Flight Emergency Descent	Review Review Review
Approach and Landing Procedures Normal and/ or Crosswind Landing Go-Around/Rejected Landing	Review Review
Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas Positive Aircraft Control Procedures for Positive Exchange of Flight Controls Wake Turbulence Avoidance Land and Hold Short Operations (LAHSO) Runway Incursion Avoidance Stall/Spin Awareness Checklist Usage	Review Review Review Review Review Review Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

This lesson is complete when the student has demonstrated the ability to safely takeoff and land the airplane, as well as operate the aircraft in the traffic pattern, without instructor assistance. In addition, the student should maintain altitude within ± 150 feet; airspeed ± 10 knots and heading within $\pm 15^\circ$ and landings must be maintained within -0 to $+ 600$ feet of a specified touchdown point. During BAI training, student will maintain ± 250 feet altitude, $\pm 25^\circ$ heading, and airspeed within 15 kts.

Lesson 16-STO

Equipment

GROUND

Lesson Objective

This lesson is a stage check conducted by the Chief Instructor, designated Assistant or another designated Check Instructor.

Lesson Content

Oral Certificates and Documents Performance and Limitations Airworthiness Requirements National Airspace System
Special Emphasis Areas Wake Turbulence Avoidance Runway Incursion Avoidance Land and Hold Short Operations (LAHSO)
Additional Areas As Assigned By Instructor (If Necessary)

Completion Standards

During this stage check the PUI must demonstrate basic aeronautical knowledge related to each task listed.

Lesson 17-STF

Equipment

DA40

Lesson Objective

This lesson is a stage check conducted by the Chief Instructor, designated Assistant Chief or another designated Check Instructor. During this stage check the student must demonstrate the ability to safely fly the airplane during takeoffs, level flight, and landings. Situations requiring the student to execute emergency/abnormal procedures may be presented by the student at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management
Preflight Procedures Preflight Briefing Preflight Inspection
Engine Start General Starting Procedures Engine Fire On Start Procedures
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Nose Wheel Steering
Before Takeoff Check Engine Check Instrument Check
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff
Traffic Pattern Operations Traffic Pattern Procedures Wind Drift
Flight by Reference to Instruments Straight and Level Flight
Steep Turns Steep Turns
Turns (IR) Turns to a Heading

Slow Flight Pitch/Airspeed Control Power/Altitude Control Climbs/Turns/Descents
Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist
Stalls Power-Off Stalls Power-On Stalls
Emergency / Abnormal Procedures Systems and Equipment Malfunctions Engine Failure in Flight Emergency Descent
Approach and Landing Procedures Normal and/ or Crosswind Landing Go-Around/Rejected Landing
Postflight Operations Securing Aircraft Postflight Debrief
Special Emphasis Areas Positive Aircraft Control Procedures for Positive Exchange of Flight Controls Wake Turbulence Avoidance Land and Hold Short Operations (LAHSO) Runway Incursion Avoidance Stall/Spin Awareness Checklist Usage
Additional Areas As Assigned By Instructor (If Necessary)

Completion Standards

This lesson and Stage I are complete when the student can competently perform preflight duties and all other procedures necessary for the safe conduct of a solo flight in the local traffic pattern. During landings, the student will maintain -0 to +600 feet of a specified touchdown point. Altitude during visual operations will be maintained within ± 150 feet, headings within $\pm 15^\circ$ and airspeed within ± 10 knots. During basic instrument operations the student shall maintain positive control of the aircraft at all times and maintain altitude within ± 250 feet, heading within $\pm 25^\circ$ and airspeed within ± 15 knots.

Stage 2

Stage Objective

This stage allows the student to expand the skills learned in the previous stage. The student is introduced to maximum performance takeoff and landing procedures. Greater emphasis is placed on attitude controlled by instrument reference to increase the student's skill and safety. This stage also introduces the student to night flying and cross-country operations in preparation for solo flights. The student will learn to plan and conduct cross-country flights using pilotage, dead reckoning, and radio navigation.

The student will conduct training in the following equipment as applicable:

Advanced Aviation Training Device (AATD)

Flight Training Device (FTD)

Technical Advanced Aircraft (TAA - for example Cirrus/Cessna/Diamond)

Single Engine Airplane-Land (ASEL for example Diamond DA40)

Stage Completion Standards

The student will demonstrate proficiency to the standard of performance outlined in the current FAA Private Pilot Practical Test Standards.

Lesson 18-DL

Equipment

DA40

Lesson Objective

During this lesson the student will be introduced to short and soft-field takeoffs and landings. The student will practice the listed maneuvers to gain proficiency and to prepare for the student's first solo in the traffic pattern.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff	Review Introduction Introduction
Traffic Pattern Operations Traffic Pattern Procedures Wind Drift	Review Review
Checklist Usage Normal Procedures Checklist	Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing Short-Field Landing Soft-Field Landing No Flap Landing Go-Around/Rejected Landing	Review Introduction Introduction Introduction Review
Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review

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Completion Standards

This lesson is complete when the student has demonstrated the ability to safely takeoff and land the airplane, as well as operate the aircraft in the traffic pattern, without instructor assistance in order to maintain -0 to +600 (Normal) and -0 to +400 (Short) from a specified touchdown point. In addition, the student should maintain altitude within ± 150 feet, airspeed ± 10 knots and heading within $\pm 15^\circ$.

Lesson 19-DL

Equipment

DA40

Lesson Objective

During this lesson the student will be introduced to VOR/Navaid orientation and tracking. The student will also practice the listed maneuvers to gain proficiency and to prepare for the student's first solo operations in the traffic pattern. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Automation Management Collision Avoidance Task Management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff	Review Review Review
Traffic Pattern Operations Traffic Pattern Procedures Wind Drift	Review Review
Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist	Review Review Review
Stalls Power-Off Stalls	Review
Intercepting & Tracking VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking	Introduction Introduction
Emergency/Abnormal Procedures Engine Failure in Flight Engine Fire in Flight	Review Review
Approach and Landing Procedures Short-Field Landing Soft-Field Landing	Review Review

Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will demonstrate a solid knowledge of the elements related to short and soft-field takeoffs and landings as well as be able to demonstrate the correct procedures with little instructor guidance and maintain -0 to +400 feet of a specified touchdown point for short field landings. In addition, the student will demonstrate a basic knowledge of the elements related to VOR/Navaid navigation. In addition, the student should maintain altitude within ± 150 feet, airspeed ± 10 knots and heading within $\pm 15^\circ$.

Lesson 20-DL

Equipment

DA40

Lesson Objective

During this lesson the student will practice short and soft-field takeoffs and landings to gain proficiency and confidence. In addition, the Flight Instructor will present situations requiring the student to fly solely by reference to instruments. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Takeoff and Climb Procedures Short-Field Takeoff Soft-Field Takeoff	Review Review
Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist	Review Review Review
Intercepting & Tracking VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking Unusual Attitudes (IR) Unusual Attitudes /Recovery Procedures	Review Review Introduction
Approach and Landing Procedures Short-Field Landing Soft-Field Landing No Flap Landing Forward Slip to a Landing	Review Review Review Review
Postflight Operations Securing Aircraft Postflight Debrief	Review Review

Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will perform short and soft-field takeoffs and landings safely while maintaining directional control. Airspeed during takeoff and landings will be within +10/-5 knots of the target airspeed and -0 to +400 feet of the specified touchdown point. The student will demonstrate knowledge of the correct recovery techniques from unusual attitudes. During BAI training the student will maintain ± 200 feet altitude, $\pm 20^\circ$ heading, and ± 15 kts airspeed.

Lesson 21-GB

Equipment

Briefing Room

Lesson Objective

This lesson introduces the student to night operations in preparation for a night flight in the following lesson.

Lesson Content

Regulations Recent Flight Experience Flight Review Medical Certificates Pilot Logbook Instrument and Equipment Requirements Supplemental Oxygen	Review Review Review Review Introduction Introduction
Night Flight Planning for Night flights Oxygen Requirements/Recommendations Night Vision/Scanning Visual Illusions Cockpit Lighting	Introduction Introduction Introduction Introduction Introduction
Weather Information Aviation Routine Weather Report (METAR) Aviation Terminal Forecast (TAF) Aviation Area Forecast (FA) Airmet (WA), Sigmet (WS), Convective Sigmet (WST) Surface Analysis Chart Weather Depiction Chart Winds and Temperatures Aloft Chart Significant Weather Prognostic Charts Convective Outlook Chart Radar Weather Report	Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction
Weather Theory Atmosphere Temperature Atmospheric Pressure Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Air Masses and Fronts Turbulence Icing Thunderstorms	Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction Introduction

Special Emphasis Areas Controlled Flight Into Terrain (CFIT) Stall/Spin Awareness	Introduction Review
Additional Areas As Assigned by Instructor (If Necessary)	

Completion Standards

At the completion of this lesson the student will have gained a solid level of knowledge in the tasks listed above.

Lesson 22-DLN

Equipment

DA40

Lesson Objective

During this flight the student will be introduced to the operational aspects of night flight. Special emphasis is placed on the additional planning and flight considerations when operating at night. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Traffic Pattern Operations Traffic Pattern Procedures Wind Drift	Review Review
Night Flight Operations Visual Illusions Airport Lighting	Review Introduction
Intercepting & Tracking VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking	Review Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing No-Landing Light Landing Go-Around/Rejected Landing	Review Introduction Review

Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will demonstrate a solid knowledge of the elements related to night operations. The student should complete at least five (5) night takeoffs and landings to a full stop at the conclusion of this lesson. The student will demonstrate proficiency in the maneuvers listed above held to the FAA Private Pilot Practical Test Standards.

Lesson 23-GB

Equipment

Briefing Room

Lesson Objective

During this lesson the student will be introduced to VFR cross-country flight planning in preparation for the student's first cross-country flight. The student and Flight Instructor will plan a cross-country from your home airport to an airport at least **50** nm away.

Lesson Content

VFR Cross-Country Planning Plan Cross-Country Cross-Country Navigation Log	Introduction Introduction
Special Emphasis Areas Aeronautical Decision Making (ADM)	Review
Additional Areas As Assigned by Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have gained knowledge of cross-country flight planning and be able to plan future cross country flights with little to no instructional assistance.

Lesson 24-DXC

Equipment

DA40

Lesson Objective

During this lesson the student is introduced to cross-country procedures and techniques and uncontrolled airport operations. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff	Review Review Review
Flight by Reference to Instruments Basic Attitude Instrument Flight	Review
Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist	Review Review Review
Intercepting & Tracking VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking	Review Review
Cross Country Flight Controlled Airport Operations Uncontrolled Airport Operations	Introduction Introduction
VFR Navigation E6B Usage Navigation Pilotage Dead-Reckoning Diversion Procedures	Introduction Introduction Introduction Introduction Introduction

Emergency/Abnormal Procedures Systems and Equipment Malfunctions	Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing Short-Field Landing Soft-Field Landing	Review Review Review
Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will demonstrate the skill to perform cross-country flights safely and operate at uncontrolled fields using proper techniques. This includes accurate and complete preflight planning, weather analysis, use of FAA publications and charts, and adherence to the preplanned flight. The student should understand the use of pilotage, dead reckoning, radio navigation, and diversion procedures. Altitude should be controlled within 200 feet and heading within $\pm 15^\circ$ and airspeed within ± 10 kts on the navigation operations. Takeoffs and Landings will be held to the appropriate standards outlined in the Private Pilot PTS.

Lesson 25-DL

Equipment

DA40

Lesson Objective

This lesson provides a review and introduction of emergency and abnormal procedures through the use of simulated situations in the appropriate flight training devices.

Lesson Content

SRM Risk Assessment Collision Avoidance Task Management Automation Management	Review Review Review Review
Preflight Procedures Lesson Planning Preflight Briefing	Review Review
Checklist Usage Normal Procedures Checklist Abnormal Procedures Checklist Emergency Procedures Checklist	Review Review Review
Engine Start General Starting Procedures Hot Start Procedures	Review Review
Emergency/Abnormal Procedures Systems and Equipment Malfunctions Door Open in Flight CAPS Deployment (If Installed) Electrical Trim/Autopilot Failure (If Installed) Pitot/Static Malfunction Engine Partial Power Loss Low Oil Pressure Engine Failure in Flight Emergency Equipment and Survival Gear Wing Fire in Flight Propeller Governor Failure (If Installed) Alternator Failure in Flight	Review Introduction Introduction Introduction Introduction Introduction Introduction Review Introduction Introduction Introduction Introduction
Avionics Flight Director Usage (If Installed) MFD Setup and Usage (If Installed) PFD Setup and Usage (If Installed) GPS Setup and Usage (If Installed)	Review Review Review Review

Takeoff and Climb Procedures Short-Field Takeoff Soft-Field Takeoff Aborted Takeoff	Review Review Review
Go-Around Procedures Go-Around Procedures	Review
Approach and Landing Procedures Short-Field Approach Procedures Soft-Field Approach Procedures	Review Review
Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have gained proficiency in emergency and abnormal procedures with respect for the Private Pilot Practical Test Standards (PTS). During the postflight debrief, the student will be assigned specific tasks to prepare for the next flight activity.

Lesson 26-DXCN

Equipment

DA40

Lesson Objective

During this lesson the student learns to perform VFR night navigation competently. Emphasis is placed on the importance of proper planning and accurate navigation. The student will plan and execute a night VFR cross country flight of more than 100 nm total distance to an airport more than 50 nm away from the point of origin. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management	Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff	Review Review Review
Slow Flight (VR/IR) Pitch/Airspeed Control Power/Altitude Control Climbs/Turns/Descents	Review Review Review
Night Flight Operations Visual Illusions Airport Lighting	Review Review
Intercepting & Tracking VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking Cross Country Flight Landing at an Airport more than 50 nm distance	Review Review Introduction

VFR Navigation E6B Usage Navigation Pilotage Dead-Reckoning Diversion Procedures	Review Review Review Review Review
Emergency/Abnormal Procedures Systems and Equipment Malfunctions	Review
Unusual Attitudes (IR) Unusual Attitudes /Recovery Procedures	Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing Soft-Field Landing No Flap Landing No-Landing Light Landing Forward Slip to a Landing	Review Review Review Review Review
Postflight Operations Postflight Procedures Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will demonstrate a thorough understanding of night cross-country planning, flight procedures and precautions. Navigation should be accurate and simulated emergency situations handled promptly, utilizing proper judgment. This flight must be more than 100 nm total distance. This lesson must include at least five (5) takeoffs and landings to a full stop that are performed safely and without instructor assistance. At the completion of this lesson, the student must have logged at least ten (10) takeoffs and landings to a full stop at night (with each landing involving a flight in the traffic pattern) at an airport, 3.0 hours of dual cross-country flight training, and 3.0 hours of night flight. All tasks will be held to the Private Pilot PTS.

Lesson 27-DL

Equipment

DA40

Lesson Objective

During this lesson the student will practice short and soft-field takeoffs and landings to gain proficiency and confidence. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Takeoff and Climb Procedures Short-Field Takeoff Soft-Field Takeoff	Review Review
Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist	Review Review Review
Approach and Landing Procedures Short-Field Landing Soft Field Landing No Flap Landing Forward Slip to a Landing	Review Review Review Review
Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will perform short and soft-field takeoffs and landings safely while maintaining directional control. Airspeed during takeoff and landings will be within +10/-5 knots of the target airspeed and -0 to +400 feet of the specified touchdown point. The student will demonstrate knowledge of the correct recovery techniques from unusual attitudes.

Lesson 28-GB

Equipment

Briefing Room

Lesson Objective

During this lesson the student will prepare for the stage II check. The student will also be required to complete the presolo aeronautical exam during this ground brief.

Lesson Content

Oral	
Certificates and Documents	Review
Performance and Limitations	Review
Airworthiness Requirements	Review
Aeromedical Factors	Review
Operation of Systems	Review
VFR Cross Country Flight Planning	Review
National Airspace System	Review
Pre-Solo Aeronautical Knowledge Exam	
Pre-Solo Aeronautical Knowledge Exam	Administer/Grade/Review
Special Emphasis Areas	
All Areas	Review
Additional Areas	
As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson the student will have knowledge of the tasks that meets or exceeds the desired outcome level listed above with respect to the Private Pilot Practical Test Standards. Additionally this lesson will not be completed until the student has successfully completed the pre-solo aeronautical knowledge exam on the areas outlined in regulation **61.87 (b)**. At the conclusion of the test, the questions must be reviewed and all incorrect answers corrected with the instructor and student.

Lesson 29-DXC

Equipment

DA40

Lesson Objective

The student must demonstrate the ability to safely conduct a solo cross-country flight, as well as demonstrate proficiency within the tasks listed below. The student will use an E6B or applicable tools to determine time speed and distance to waypoints in order to arrive and **accurately** land at a destination more than **50 nm away**. The instructor should emphasize the proper technique for safely exiting, entering and operating in the traffic pattern with attention to radio communications and collision avoidance. Emphasis should also be placed on ground operations including but not limited to refueling. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Preflight Briefing Preflight Inspection	Review Review
Engine Start General Starting Procedures Engine Fire On Start Procedures Hot Start procedures	Review Review Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering Differential Braking	Review Review Review
Before Takeoff Check Engine Check Instrument Check Avionics Setup	Review Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review
Traffic Pattern Operations Traffic Pattern Procedures Wind Drift	Review Review

Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist	Review Review Review
Intercepting & Tracking VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking	Review Review
Cross Country Flight Landing at an Airport more than 50 nm distance On Time Departure Open VFR Flight Plan Controlled Airport Operations Uncontrolled Airport Operations On Time Arrival Close VFR Flight Plan	Introduction Introduction Review Review Introduction Introduction
Emergency/Abnormal Procedures Systems and Equipment Malfunctions	Review
Unusual Attitudes (IR) Unusual Attitudes /Recovery Procedures Emergency Descent	Review Review
Stalls Power-Off Stalls Power-On Stalls	Review Review
Lost Procedures Simulated Flight Into IMC	Introduction
Flight by Reference to Instruments Straight and Level Flight Basic Attitude Instrument Flight	Review Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing Go-Around/Rejected Landing	Review Review
Postflight Operations Securing Aircraft Postflight Debrief	Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will demonstrate the ability to safely conduct a solo cross-country flight. At the completion of this lesson, the student will have met the standard prescribed for each task with respect to the FAA Private Pilot PTS.

Lesson 30-STO

Equipment

GROUND

Lesson Objective

This lesson is a stage check conducted by the Chief, designated Assistant Chief or another designated Check Instructor. During this stage check the student must demonstrate the ability to safely conduct a solo cross-country flight as well as private pilot level operations.

Lesson Content

Training Records Identity Verification Review of Training Folder Verify/Update Manuals Verify/Update Publications
Oral Certificates and Documents Performance and Limitations Airworthiness Requirements Weather Information VFR Cross Country Flight Planning National Airspace System Operations of Systems Aeromedical Factors
Special Emphasis Areas All Areas
Additional Areas As Assigned By Instructor (If Necessary)

Completion Standards

At the completion of this lesson, the student will have met the standard prescribed for each task with respect to the FAA Private Pilot PTS.

Lesson 31-STF

Equipment

DA40

Lesson Objective

This lesson is a stage check conducted by the Chief, designated Assistant Chief or another designated Check Instructor. During this stage check the student must demonstrate the ability to safely conduct a solo cross-country flight. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation Management
Preflight Procedures Preflight Briefing Preflight Inspection
Engine Start General Starting Procedures Engine Fire On Start Procedures Hot Start procedures
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering
Before Takeoff Check Engine Check Instrument Check Avionics Setup
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff
Traffic Pattern Operations Traffic Pattern Procedures Wind Drift
Checklist Usage Normal Procedures Checklist Emergency Procedures Checklist Abnormal Procedures Checklist

Intercepting & Tracking VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking
Slow Flight Pitch/Airspeed Control Power/Altitude Control Climbs/Turns/Descents
Stalls Power-Off Stalls Power-On Stalls
VFR Navigation Pilotage Dead-Reckoning Diversion Procedures VFR Flight Plan Procedures
Emergency/Abnormal Procedures Systems and Equipment Malfunctions
Unusual Attitudes (IR) Unusual Attitudes /Recovery Procedures
Lost Procedures Simulated Flight Into IMC
Flight by Reference to Instruments Straight and Level Flight Basic Attitude Instrument Flight
ATC Communications ATC Communications Standard Phraseology
Approach and Landing Procedures Normal and/or Crosswind Landing Short-Field Landing Soft-Field Landing Forward Slip Approach Procedures Go-Around/Rejected Landing
Postflight Operations Securing Aircraft Postflight Debrief
Special Emphasis Areas All Areas
Additional Areas As Assigned By Instructor (If Necessary)

Completion Standards

The student will demonstrate the ability to safely conduct a solo cross-country flight. The standards for this lesson will be conducted in accordance with the Private Pilot (PTS). Additionally the student will exhibit increased SRM skills in all areas. During the postflight debrief, the student will be assigned specific tasks to prepare for the next flight activity.

Stage 3

Stage Objective

During this stage the student will conduct all the solo flight requirements. The student will also receive instruction in preparation for the end-of-course check.

The student will conduct training in the following equipment as applicable:

Advanced Aviation Training Device (AATD)

Flight Training Device (FTD)

Technical Advanced Aircraft (TAA - for example Cirrus/Cessna/Diamond)

Single Engine Airplane-Land (ASEL for example Diamond DA40)

Stage Completion Standards

The student will demonstrate proficiency to the standard of performance outlined in the current FAA Private Pilot Practical Test Standards.

Lesson 32-DSL

Equipment

DA40

Lesson Objective

This lesson provides an introduction to solo flight operations and a review of traffic pattern operations, and Normal and/or Crosswind Takeoffs and landings. After demonstrating to the Flight Instructor at least 2 Normal and/or Crosswind Takeoffs and landings, the student will continue the flight as the sole occupant of the aircraft.

Lesson Content

SRM Risk Assessment Collision Avoidance Personal Weather Minimums Checklist Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Review/Grade Pre Solo Knowledge Test Issue/Reissue Endorsements Certificates and Documents Performance and Limitations Lesson Planning Preflight Briefing Preflight Inspection	Review Review Review Review Review Review Review
Checklist Usage Normal Procedures Checklist	Review
Engine Start General Starting Procedures	Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering	Review Review
Before Takeoff Check Engine Check Instrument Check	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review

Traffic Pattern Operations Traffic Pattern Procedures Traffic Pattern Operations Wind Drift	Review Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing	Review
Postflight Operations Securing Aircraft Postflight Debrief Recording Aircraft Discrepancies	Review Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have completed 3 takeoffs and 3 landings in the traffic pattern solo. At no time will safety of the flight be in question. During the postflight debrief, the student will be assigned specific tasks to prepare for the next flight activity.

Lesson 33-DSL

Equipment

DA40

Lesson Objective

This lesson provides an introduction to solo flight operations and a review of traffic pattern operations, and Normal and/or Crosswind Takeoffs and landings. After demonstrating to the Flight Instructor at least 2 Normal and/or Crosswind Takeoffs and landings, the student will continue the flight as the sole occupant of the aircraft.

Lesson Content

SRM Risk Assessment Collision Avoidance Personal Weather Minimums Checklist Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Review/Grade Pre Solo Knowledge Test Issue/Reissue Endorsements Certificates and Documents Performance and Limitations Lesson Planning Preflight Briefing Preflight Inspection	Review Review Review Review Review Review Review
Checklist Usage Normal Procedures Checklist	Review
Engine Start General Starting Procedures	Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering	Review Review
Before Takeoff Check Engine Check Instrument Check	Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review

Traffic Pattern Operations Traffic Pattern Procedures Traffic Pattern Operations Wind Drift	Review Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing	Review
Postflight Operations Securing Aircraft Postflight Debrief Recording Aircraft Discrepancies	Review Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have complete 3 takeoffs and 3 landings in the traffic pattern solo. At no time will safety of the flight be in question. During the postflight debrief, the student will be assigned specific tasks to prepare for the next flight activity.

Lesson 34-DXC

Equipment

DA40

Lesson Objective

During this lesson the student will practice the listed maneuvers to maintain proficiency and to prepare for the student’s cross-country solo. The student will plan and execute a VFR cross country flight to an airport at least 50 nm away from the point of origin. Situations requiring the student to execute emergency/abnormal procedures may be presented by the Flight Instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Collision Avoidance Personal Weather Minimums Checklist Task Management	Review Review Review Review
Preflight Procedures Certificates and Documents Performance and Limitations ATC Light Signals Lesson Planning Refueling Procedures Preflight Briefing Preflight Inspection	Review Review Review Review Review Review Review
Checklist Usage Normal Procedures Checklist Abnormal Procedures Checklist Emergency Procedures Checklist	Review Review Review
Engine Start General Starting Procedures	Review
ATC Communications ATC Communications Standard Phraseology	Review Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering Differential Braking Airport Signs and Markings	Review Review Review Review

Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff	Review Review Review
Cross Country Flight On Time Departure Open VFR Flight Plan Landing at an Airport more than 50 nm distance Close VFR Flight Plan On Time Arrival	Review Review Review Review Review
VFR Navigation E6B Usage Pilotage Dead-Reckoning Diversion Procedures	Review Review Review Review
Emergency/Abnormal Procedures Systems and Equipment Malfunctions	Review
Stalls Power-Off Stalls Power-On Stalls Autopilot Stalls/Recovery Procedures (If Installed)	Review Review Review
Slow Flight Slow Flight	Review
Flight by Reference to Instruments Straight and Level Flight	Review
Turns (IR) Turns to a Heading	Review
Approach and Landing Procedures Short-Field Landing Soft-Field Landing Go Around/Rejected Landing Forward Slip to a Landing	Review Review Review Review
Postflight Operations Postflight Procedures Securing Aircraft Postflight Debrief Recording Aircraft Discrepancies	Review Review Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will be prepared to conduct their first solo cross-country. The student will have met the desired outcome level for each task with respect to the FAA Private Pilot PTS. Additionally the student will exhibit SRM skills that indicate that they are capable of operating an aircraft as the sole occupant. During the postflight debrief, the student will be assigned specific tasks to prepare for the next flight activity.

Lesson 35-SXC

Equipment

DA40

Lesson Objective

The student will be the sole occupant of the aircraft, and complete an initial solo cross country flight. The student must plan and execute a solo VFR cross-country flight to 3 airports. The total distance covered must be more than 150 nm. One airport of intended landing must be more than 50 nm from the airport of departure.

Students must complete plan and execute a solo VFR cross-country flight to 3 airports and the total distance must not be less than 150nm in which full stop landings are conducted to each airport.

Lesson Content

SRM Risk Assessment Collision Avoidance Personal Weather Minimums Checklist Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Certificates and Documents Performance and Limitations Refueling Procedures Preflight Briefing Preflight Inspection	Review Review Review Review Review
Checklist Usage Normal Procedures Checklist	Review
Engine Start General Starting Procedures	Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering Differential Braking	Review Review Review
Before Takeoff Check Engine Check Instrument Check Avionics Setup	Review Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review

Cross Country Flight On Time Departure Open VFR Flight Plan Landing at an Airport more than 50 nm distance Cross Country Total Distance more than 150 nm Landing at a Controlled Airport Close VFR Flight Plan On Time Arrival	Review Review Review Review Review Review Review
VFR Navigation Pilotage Dead-Reckoning	Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing	Review
Postflight Operations Aircraft Marshalling Securing Aircraft Postflight Debrief Recording Aircraft Discrepancies	Review Review Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have completed a solo cross country flight that fulfills the requirements of Part 61. At no time will safety of the flight be in question. Additionally, students requiring 10 hours of total solo flight must complete the total time requirement at the conclusion of this flight. During the post flight debrief, the student will be assigned specific tasks to prepare for the next flight activity.

Lesson 36-SXC

Equipment

DA40

Lesson Objective

The student will be the sole occupant of the aircraft, and complete an initial solo cross country flight. The student must plan and execute a solo VFR cross-country flight to 3 airports. The total distance covered must be more than 150 nm. One airport of intended landing must be more than 50 nm from the airport of departure.

Students must complete plan and execute a solo VFR cross-country flight to 3 airports and the total distance must not be less than 150nm in which full stop landings are conducted to each airport.

Lesson Content

SRM Risk Assessment Collision Avoidance Personal Weather Minimums Checklist Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Certificates and Documents Performance and Limitations Refueling Procedures Preflight Briefing Preflight Inspection	Review Review Review Review Review
Checklist Usage Normal Procedures Checklist	Review
Engine Start General Starting Procedures	Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering Differential Braking	Review Review Review
Before Takeoff Check Engine Check Instrument Check Avionics Setup	Review Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff	Review

Cross Country Flight On Time Departure Open VFR Flight Plan Landing at an Airport more than 50 nm distance Cross Country Total Distance more than 150 nm Landing at a Controlled Airport Close VFR Flight Plan On Time Arrival	Review Review Review Review Review Review Review
VFR Navigation Pilotage Dead-Reckoning	Review Review
Approach and Landing Procedures Normal and/or Crosswind Landing	Review
Postflight Operations Aircraft Marshalling Securing Aircraft Postflight Debrief Recording Aircraft Discrepancies	Review Review Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

At the completion of this lesson, the student will have completed a solo cross country flight that fulfills the requirements of Part 61. At no time will safety of the flight be in question. Additionally, students requiring 10 hours of total solo flight must complete the total time requirement at the conclusion of this flight. During the post flight debrief, the student will be assigned specific tasks to prepare for the next flight activity.

Lesson 37-GB

Equipment

Briefing Room

Lesson Objective

This lesson provides a review of the private pilot knowledge test, preflight preparation, special emphasis areas, and any additional areas assigned by the instructor in preparation for end-of-course lesson.

Lesson Content

Training Records Review of Training Folder Verify/Update Manuals Verify/Update Publications	Review Review Review
Private Pilot Knowledge Test Review Review Deficient Subject Areas	Review
Preflight Preparation Certificates and Documents Airworthiness Requirements Weather Information Cross Country Flight Planning National Airspace System Performance and Limitations Operations of Systems Aeromedical Factors	Review Review Review Review Review Review Review
Special Emphasis Areas All Areas	Review
Additional Areas As Assigned by Instructor (If Necessary)	

Completion Standards

At the completion of this lesson the student will have knowledge of the tasks that meets or exceeds the desired outcome level listed above with respect to the Private Pilot PTS.

Lesson 38-DL

Equipment

DA40

Lesson Objective

During the flight the student must demonstrate Private Pilot proficiency in accordance with the current FAA Private Pilot Practical Test Standards in preparation for the end-of-course evaluation.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation Management	Review Review Review Review Review
Preflight Procedures Certificates and Documents Performance and Limitations ATC Light Signals Recording Aircraft Discrepancies Supplemental Oxygen Refueling Procedures Preflight Briefing Preflight Inspection	Review Review Review Review Review Review Review Review
Engine Start General Starting Procedures Engine Fire On Start Procedures	Review Review
Taxi Operations Basic Aircraft Control - Aileron Position Nose Wheel or Free Castering Steering	Review Review
Before Takeoff Check Engine Check Instrument Check Avionics Setup	Review Review Review
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff	Review Review Review
Traffic Pattern Operations Traffic Pattern Procedures	Review

Flight by Reference to Instruments Straight and Level Flight	Review
Turns (IR) Turns to Headings	Review
Slow Flight Pitch/Airspeed Control Power/Altitude Control	Review Review
Checklist Usage Normal Procedures Checklist Abnormal Procedures Checklist Emergency Procedures Checklist	Review Review Review
Stalls Power-Off Stalls Power-On Stalls	Review Review
Ground Reference Maneuvers Rectangular Course Turns Around a Point S-Turns	Review Review Review
VFR Navigation Navigation Pilotage Dead-Reckoning Diversion Procedures	Review Review Review Review
Emergency/Abnormal Procedures Systems and Equipment Malfunctions Engine Failure in Flight Emergency Descent	Review Review Review
Unusual Attitudes (IR) Unusual Attitudes /Recovery Procedures	Review
Lost Procedures Simulated Flight Into IMC	Review
Descents (IR) Constant Airspeed Descents	Review
Steep Turns Steep Turns	Review
Approach and Landing Procedures Normal and/or Crosswind Landing Short-Field Landing Soft-Field Landing Forward Slip to a Landing Go-Around/Rejected Landing Emergency Approach Procedures	Review Review Review Review Review Review
Postflight Operations Securing Aircraft Postflight Debrief Recording Aircraft Discrepancies	Review Review Review

Special Emphasis Areas All Areas	Review
Additional Areas As Assigned By Instructor (If Necessary)	

Completion Standards

The student will demonstrate proficiency to the standard of performance outlined in the current FAA Private Pilot Practical Test Standards.

Lesson 39-STO

Equipment

GROUND

Lesson Objective

This lesson is the Stage Check/End-of-Course Test conducted by the Chief, designated Assistant Chief or another designated Check Instructor. During the oral the student must demonstrate Private Pilot proficiency in accordance with the current FAA Private Pilot Practical Test Standards

Lesson Content

Training Records Identity Verification Review of Training Folder Verify/Update Manuals Verify/Update Publications Verify Endorsements
Private Pilot Knowledge Test Review Review Deficient Subject Areas
Oral Certificates and Documents Performance and Limitations Airworthiness Requirements Weather Information VFR Cross Country Flight Planning National Airspace System Operations of Systems Aeromedical Factors
Special Emphasis Areas All Areas
Additional Areas As Assigned By Instructor (If Necessary)

Completion Standards

At the completion of this evaluation, the student will be able to demonstrate the knowledge and proficiency required to meet the standards outlined in the current FAA Private Pilot Practical Test Standards.

Lesson 40-STF (End-of-Course)

Equipment

DA40

Lesson Objective

This lesson is the Stage Check/End-of-Course Test conducted by the Chief Instructor, designated Assistant Chief or another designated Check Instructor. During the flight the student must demonstrate Private Pilot proficiency in accordance with the current FAA Private Pilot Practical Test Standards. Situations requiring the student to execute emergency/abnormal procedures may be presented by the flight instructor at any time during the lesson.

Lesson Content

SRM Risk Assessment Personal Weather Minimums Checklist Collision Avoidance Task Management Automation Management
Preflight Procedures Certificates and Documents Performance and Limitations ATC Light Signals Preflight Briefing Preflight Inspection
Engine Start General Starting Procedures Engine Fire On Start Procedures
Taxi Operations Basic Aircraft Control – Aileron Position Nose Wheel or Free Castering Steering
Before Takeoff Check Engine Check Instrument Check Avionics Setup
Takeoff and Climb Procedures Normal and/or Crosswind Takeoff Short-Field Takeoff Soft-Field Takeoff
Traffic Pattern Operations Traffic Pattern Procedures
Climbs (IR) Constant Airspeed Climbs

Flight by Reference to Instruments Straight and Level Flight
Turns (IR) Turns to Headings
ATC Communications ATC Communications Standard Phraseology
Slow Flight Pitch/Airspeed Control Power/Altitude Control
Checklist Usage Normal Procedures Checklist Abnormal Procedures Checklist Emergency Procedures Checklist
Stalls Power-Off Stalls Power-On Stalls
Ground Reference Maneuvers Rectangular Course Turns Around a Point S-Turns
VFR Navigation Pilotage Dead-Reckoning VOR/Navaid Orientation VOR/Navaid Intercepting & Tracking Diversion Procedures Lost Procedures
Emergency/Abnormal Procedures Systems and Equipment Malfunctions Engine Failure in Flight Emergency Descent
Unusual Attitudes (IR) Unusual Attitudes /Recovery Procedures
Lost Procedures Simulated Flight Into IMC
Descents (IR) Constant Airspeed Descents
Steep Turns Steep Turns

Approach and Landing Procedures Normal and/or Crosswind Landing Short-Field Landing Soft-Field Landing Forward Slip to a Landing Go-Around/Rejected Landing Emergency Approach Procedures
Postflight Operations Securing Aircraft Postflight Debrief Recording Aircraft Discrepancies
Special Emphasis Areas All Areas
Additional Areas As Assigned By Instructor (If Necessary)

Completion Standards

The student will demonstrate proficiency for each maneuver/procedure to the standard of performance outlined in the current FAA Private Pilot Practical Test Standards.

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