Sample Flight Training Syllabus For Student Balloon Pilots

A formalized lesson plan should be used by the instructor in teaching various phases of hot air balloon flight. This lesson plan is divided into units, with provisions for evaluations by the instructor at the various stages of training. This model flight training syllabus is extensive and covers virtually all phases of flight training. It should be used as a guide and modified to suit the needs of the individual student.

UNIT ONE - INTRODUCTORY DUAL FLIGHT

The first lesson consists of Flight Planning, familiarization with the aircraft and its operating procedures, the sensations of lighter-than-air flight, local flight areas, and the use of hot air balloon flight controls and instruments. Flight planning should be a routine "first section" to all training units to follow in this manual.

			1	2	3
A)	FLIGHT PLANNING	Demonstration	☐	☐	☐
	Weather Briefings		☐	☐	☐
	Plot Flight Path		☐	☐	☐
	Select Launch Site (permission?)		☐	☐	☐
	Call Ground Crew, Passengers		☐	☐	☐
	Observe Surface Winds		☐	☐	☐
	Ground Crew Briefing		☐	☐	☐
B)	PROPER LANDOWNER RELATIONS	Ground Instruction	☐	☐	☐
C)	AIRCRAFT FAMILIARIZATION	Ground Instruction	☐	☐	☐
	Pre-Flight Inspection		☐	☐	☐
	Aircraft Documents, Records		☐	☐	☐
	Aircraft Performance, Operations		☐	☐	☐
	Controls, Instruments		☐	☐	☐
	Tanks, Valves, Hoses, Equipment		☐	☐	☐
	Safety Equipment		☐	☐	☐
	Safety Instructions, Emergency Procedures		☐	☐	☐
D)	BALLOON LAYOUT; INFLATION	Demonstration	☐	☐	☐
	Precautions and Procedures		☐	☐	☐
	Basket Rigging		☐	☐	☐
	Envelope Layout		☐	☐	☐
	Burner Test		☐	☐	☐
	Install, Adjust Instruments		☐	☐	☐
	Rip Panel		☐	☐	☐
E)	COLD INFLATION	Demonstration	☐	☐	☐
F)	HOT INFLATION	Demonstration	☐	☐	☐
G)	PRE-TAKE-OFF CHECK, INSPECTION	Demonstration with Student Participation	☐	☐	☐
H)	WEIGH-OFF PROCEDURES	Demonstration	☐	☐	☐
I)	LAUNCH, ASCEND TO ALTITUDE, MAINTENANCE OF EQUILIBRIUM	Demonstration	☐	☐	☐
J)	POSITIVE CLIMBS AND DESCENTS AT PREDETERMINED RATES		☐	☐	☐
K)	USE OF WINDS AT VARIOUS ALTITUDES FOR DIRECTIONAL CHANGES		☐	☐	☐
L)	NORMAL APPROACHES AND LANDINGS (Touch and Go)		☐	☐	☐
M)	DEFLATION	Demonstration	☐	☐	☐
N)	LANDOWNER RELATIONS	Demonstration	☐	☐	☐
O)	REFUELING	Demonstration	☐	☐	☐
P)	POST-FLIGHT DISCUSSION	Critique of Entire Lesson	☐	☐	☐
Q)	PREVIEW OF NEXT UNIT	Review Syllabus Of Unit Two	☐	☐	☐

ACCEPTABLE STANDARD: The student should be reasonably familiar with the training aircraft, its controls and basic operation and the local practice area.

KEY: 1=No Assistance Required 2=Requires Some Assistance; 3=Needed Help!

STUDENT _____ CERT #. _____ DATE _____

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INSTRUCTOR'S SIGNATURE _____ CERT # _____

NOTE: Since this first lesson is almost entirely demonstration, some people believe there could be no evaluation of the student's performance (the key below). However, it is importance to note attentiveness and understanding and the verbal participation in questions and answers. This might be the best place to get clues about future performance and the need for adjustments in the training plan. If the student doesn't grasp the extreme importance of landowner relations, for instance, then somebody needs help.

KEY: 1=No Assistance Required; 2=Requires Some Assistance; 3=Needed Help!

UNIT TWO - DUAL FLIGHT - BASIC FLIGHT MANEUVERS

UNIT OBJECTIVE: During this lesson, the student should learn to perform the three basic flight maneuvers (maintenance of equilibrium; climbs and descents; and simple landing approaches) without assistance. The student should achieve the ability to interpret variometer and altimeter instrument indications and correct any deviations from desired indications. He should be able to operate and monitor all burner and fuel system controls and begin to anticipate the need for pilot control response.

NOTE: During this and all subsequent pre-solo lessons, the student shall perform a supervised flight planning operation as described in Unit One, and should perform a supervised pre-flight inspection of the aircraft. He shall be responsible for ground crew briefing (under supervision), equipment organization, and balloon layout with limited input from the instructor, generally during unusual, new and unfamiliar situations.

		1	2	3
A)	PRE-FLIGHT PLANNING, DISCUSSION ..... Instruction and Review	☐	☐	☐
B)	GROUND CREW BRIEFING ..... Directed Performance	☐	☐	☐
C)	BALLOON LAYOUT ..... Directed Performance	☐	☐	☐
	Pre-Flight Inspection of All Equipment	☐	☐	☐
	Use of Checklist (mental or written)	☐	☐	☐
D)	COLD INFLATION AND CHECKS ..... Directed Performance	☐	☐	☐
E)	HOT INFLATION ..... Demonstration with Student Participation	☐	☐	☐
F)	PRE-TAKE-OFF CHECK ..... Supervised Performance	☐	☐	☐
G)	WEIGH OFF ..... Supervised Performance	☐	☐	☐
H)	LAUNCH ..... Supervised Performance	☐	☐	☐
	Ascent to Specified Altitude	☐	☐	☐
	Maintenance of Equilibrium	☐	☐	☐
I)	PRACTICE OF CLIMBS, DESCENTS AND MAINTENANCE OF ALTITUDE	☐	☐	☐
J)	CROP AND FARM ANIMAL IDENTIFICATION	☐	☐	☐
K)	NORMAL APPROACH AND LANDINGS ..... Directed Performance	☐	☐	☐
L)	DEFLATION ..... Directed Performance	☐	☐	☐
M)	LANDOWNER RELATIONS ..... Directed Performance	☐	☐	☐
N)	REFUELING ..... Supervised Performance	☐	☐	☐
O)	POST-FLIGHT DISCUSSION ..... Critique of Entire Lesson	☐	☐	☐
P)	PREVIEW OF NEXT UNIT ..... Review Syllabus Of Unit Three	☐	☐	☐

ACCEPTABLE STANDARD: The student should be able to perform the pre-flight inspection of the aircraft in accordance with a check-off system, whether a formal written checklist - or a mental "systems" approach. He should conduct a ground crew briefing in a knowledgeable manner consistent with his limited ground school and study, and inflate the balloon with a minimum of instructor assistance. All airwork shall be accomplished within 150 feet of the assigned altitude or assigned variometer rate. Burner control should be positive, consistent, and with due regard to envelope temperature. The student should begin to anticipate the need for burner operation and be able to maintain a relatively constant altitude. It should be understood that, at this point, only the exceptional student will be able to maintain equilibrium with any degree of precision.

The student should be grasping the importance of respect for a landowner's property.

KEY: 1=No Assistance Required; 2=Requires Some Assistance; 3=Needed Help

STUDENT _____ CERT # _____ DATE _____

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UNIT THREE - DUAL FLIGHT - PROFICIENCY IN MANEUVERS; VENTING

UNIT OBJECTIVE: To develop proficiency in all previously introduced ground and flight procedures. During this lesson, the student will be familiarized with maneuvering vent use (if aircraft is so equipped) in the normal realm of flight, and will be afforded an opportunity to practice normal approach and landing techniques. Discussion of temperature/load/red line charts will be part of every lesson's pre-flight discussion and flight planning from here on.

NOTE: During this and all subsequent pre-solo lessons, the student shall be responsible for the inflation of the training aircraft. This does not preclude, of course, the overall primary responsibility of the flight instructor, nor his direct supervision of all operations.

			1	2	3
A)	PRE-FLIGHT DISCUSSION	Instruction and Review	☐	☐	☐
	Use Of Load Charts	Demonstration	☐	☐	☐
	Temperature/Red Line	Discussion and Review	☐	☐	☐
B)	FLIGHT PLANNING	Supervised Performance	☐	☐	☐
C)	BALLOON INFLATION		☐	☐	☐
D)	PRACTICE MANEUVERS PREVIOUSLY INTRODUCED		☐	☐	☐
E)	MANEUVERING VENT USE	Supervised Performance	☐	☐	☐
	Maneuvers Using Vent	Supervised Performance	☐	☐	☐
F)	PRACTICE CROP IDENTIFICATION	Instruction and Performance	☐	☐	☐
G)	PRACTICE APPROACHES AND LANDINGS	Supervised Performance	☐	☐	☐
H)	DEFLATION	Supervised Performance	☐	☐	☐
I)	LANDOWNER RELATIONS	Supervised Performance	☐	☐	☐
J)	POST-FLIGHT DISCUSSION	Critique Of Entire Lesson	☐	☐	☐
K)	PREVIEW OF NEXT LESSON	Review Syllabus of Unit Four	☐	☐	☐

KEY: 1=No Assistance Required; 2=Requires Some Assistance; 3=Needed Help!

ACCEPTABLE STANDARD: In addition to developing an increased proficiency in all previously practiced maneuvers, the student should be able to demonstrate proper maneuvering vent operation in normal modes of flight. Any deficiencies shall be noted, and future training concentrated in those areas deemed necessary by the flight instructor.

STUDENT _____ CERT # _____ DATE _____

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UNIT FOUR - PRE-SOLO - DUAL FLIGHT

UNUSUAL FLIGHT AND TERRAIN CONDITIONS - HAZARD AWARENESS

UNIT OBJECTIVE: To enhance the student's ability to operate the aircraft under unusual flight and terrain conditions and to increase his awareness of the special hazards associated with the improper procedures for these maneuvers. It may be argued that there are too many tasks in this unit for adequate learning. This should be thoroughly discussed with the student. This unit should be divided into sub-blocks for learning, or repeated, until the student and instructor are quite comfortable with his ability to meet the ACCEPTABLE STANDARD listed below. Simulated water landings are included because of the real problem of depth perception often discovered at this point.

		1	2	3
A)	PRE-FLIGHT DISCUSSION ..... Instruction and Review	☐	☐	☐
	Review Pre-flight and Planning Parts of Units 1, 2, and 3	☐	☐	☐
B)	PREVIOUS MANEUVERS ..... Directed Practice	☐	☐	☐
C)	ROUGH TERRAIN LANDINGS (Low Speed)	☐	☐	☐
D)	SLOPE LANDINGS (Low Speed) ..... Demonstration and Practice	☐	☐	☐
E)	APPROACHES OVER OBSTACLES (Low Speed)	☐	☐	☐
F)	CONFINED AREA APPROACH AND LANDINGS (Low Speed)	☐	☐	☐
G)	WATER LANDINGS (Low Speed) ..... Demonstration and Practice	☐	☐	☐
H)	HIGH SPEED LANDING TECHNIQUES (at Low to Medium Speed)	☐	☐	☐
I)	OPERATION NEAR POWER LINES (Low Speed) ..... Demonstration and Practice	☐	☐	☐
J)	ABORTED LANDINGS ..... Demonstration and Practice	☐	☐	☐
K)	POST-FLIGHT DISCUSSION ..... Critique of Entire Lesson	☐	☐	☐
L)	PREVIEW OF NEXT LESSON ..... Review Syllabus Of Unit Five	☐	☐	☐

KEY: 1=No Assistance Required; 2=Required Some Assistance; 3=Needed Help!

ACCEPTABLE STANDARD: The safe performance of these maneuvers requires the student to display a relatively high degree of understanding and proficiency in most aspects of hot air free balloon operations. His operations of all controls should be positive and indicative of good judgment and planning. He should be able to explain and demonstrate the considerations, precautions, and techniques involved in each type of maneuver in order to insure its safe completion.

STUDENT _____ CERT # _____ DATE _____

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UNIT FIVE - IN-FLIGHT EMERGENCY PROCEDURES

UNIT OBJECTIVE: To familiarize the student with in-flight emergency procedures and begin the development of automatic, relaxed pilot reactions that would result in a safe landing in an actual emergency. As in all lessons, time shall be allocated to allow the student to practice previously introduced maneuvers, and perform all planning functions, in order to increase his proficiency and confidence. Student is responsible for crew briefings and inflation.

		1	2	3
A)	PRE-FLIGHT DISCUSSION ..... Instruction and Review	☐	☐	☐
B)	PRACTICE OF SELECTED MANEUVERS PREVIOUSLY INTRODUCED	☐	☐	☐
C)	EMERGENCY PROCEDURES (SIMULATED)	☐	☐	☐
	Fuel Exhaustion (use empty tank)	☐	☐	☐
	Fuel System Malfunction (leak of hose or valve)	☐	☐	☐
	Regulator Malfunction	☐	☐	☐
	Burner System Failure (burners/pilots off)	☐	☐	☐
	Failure Of Maneuvering Vent To Close (if applicable)	☐	☐	☐
	Partial Opening Of Rip Panel In Flight	☐	☐	☐
	Parachute Top Valve Line Failure (if applicable)	☐	☐	☐
	Fuel System Fire ("O" ring leak, etc.)	☐	☐	☐
	Sudden Impending Powerlines, Tree, Or Other Hazard	☐	☐	☐
	Thermal Conditions And Responses Thereto	☐	☐	☐
	Use Of Emergency Equipment (Extinguisher, Drop-Line, Ballast)	☐	☐	☐
	False Lift, Sudden Ground Winds	☐	☐	☐
	Uses And Hazards Of Ground-Assistance, Crowds During Emergency	☐	☐	☐
	Unexpected Livestock Encounter	☐	☐	☐
	Pigs	☐	☐	☐
	Cattle Herd	☐	☐	☐
	Bull	☐	☐	☐
	Local Problem	☐	☐	☐
D)	POST-FLIGHT DISCUSSION ..... Critique Of Entire Lesson	☐	☐	☐
E)	PREVIEW OF NEXT LESSON ..... Review Syllabus Of Unit Six	☐	☐	☐

ACCEPTABLE STANDARD: The student should be reasonably familiar with in-flight emergency procedures and the relative importance of the aircraft's altitude and flight path. STUDENT DISPLAY OF COMMON SENSE AND GOOD JUDGMENT IS ABSOLUTELY ESSENTIAL TO THESE MANEUVERS. Proficiency in performing normal flight maneuvers should exceed the proficiency requirements of the previous lesson. However, the completion of this lesson shall not be predicated on his ability to perform to that level. Noted deficiencies, if any, shall provide the basis for remedial flight and ground training in the deficient areas as necessary.

KEY: 1=No Assistance Required; 2=Required Some Assistance; 3=Needed Help!

STUDENT _____ CERT # _____ DATE _____

STUDENT INITIALS _____ HRS: GRND _____ AIR _____

INSTRUCTOR'S SIGNATURE _____ CERT # _____

UNIT SIX - PRE-SOLO - DUAL FLIGHT

IN-FLIGHT EMERGENCY PROCEDURES - PART II

UNIT OBJECTIVE: [This lesson is very similar to Unit Five. It is re-presented here to emphasize its importance.] To enhance the student's understanding of the procedures and maneuvers involved with in-flight emergencies and aircraft system failures in free balloons in general, and in the training aircraft in particular. He shall learn to fly the aircraft in such a manner as to avoid or minimize the potential dangers which might develop in certain flight situations. The student shall be afforded an opportunity to practice previously introduced maneuvers and procedures.

		1	2	3
A)	PRE-FLIGHT DISCUSSION ..... Instruction and Review	☐	☐	☐
B)	PRACTICE OF SELECTED MANEUVERS PREVIOUSLY INTRODUCED	☐	☐	☐
C)	EMERGENCY PROCEDURES (SIMULATED WHERE POSSIBLE)	☐	☐	☐
	Fuel Exhaustion (use empty tank)	☐	☐	☐
	Fuel System Malfunction (leak or hose or valve)	☐	☐	☐
	Regulator Malfunction (if applicable)	☐	☐	☐
	Burner System Failure (burners/ pilots off)	☐	☐	☐
	Failure of Maneuvering Vent To Close (if applicable)	☐	☐	☐
	Partial Opening Of Rip Panel In Flight (if applicable)	☐	☐	☐
	Parachute Top Valve Line Failure (if applicable)	☐	☐	☐
	Fuel System Fire ("O" ring leak, etc.)	☐	☐	☐
	Sudden Impending Powerlines, Tree or Other hazard	☐	☐	☐
	Thermals (e.g., strong updraft or downdraft)	☐	☐	☐
	Use of Emergency Equipment Extinguisher, Drop-Line, Ballast, etc.)	☐	☐	☐
	False Lift, Sudden Ground Winds	☐	☐	☐
	Uses and Hazards Of Ground Assistance, Crowds During Emergencies	☐	☐	☐
	Spooked Livestock	☐	☐	☐
D)	POST-FLIGHT DISCUSSION ..... Critique of Entire Lesson	☐	☐	☐
E)	PREVIEW OF NEXT LESSON ..... Review Syllabus of Unit Seven	☐	☐	☐

KEY: 1=No Assistance Required; 2=Required Some Assistance; 3=Needed Help!

ACCEPTABLE STANDARD: The student will be required to demonstrate a high degree of knowledge and proficiency in explaining and demonstrating emergency procedures. He shall observe proper procedures established for each situation, or maneuver, and avoid hurried, thoughtless action. He should be able to display a high degree of skill in avoiding and/or extracting the aircraft from these situations. The student's knowledgeable awareness of these conditions, and how they develop and affect the aircraft, is of the utmost importance.

STUDENT _____ CERT # _____ DATE _____

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UNIT SEVEN - PRE-SOLO - DUAL FLIGHT

UNUSUAL FLIGHT AND TERRAIN CONDITIONS IN HIGH WINDS

UNIT OBJECTIVE: To enhance the student's ability to operate the aircraft under unusual flight and terrain conditions and to increase his awareness of the special hazards associated with the improper procedures for these maneuvers. This is essentially a repeat of Unit Four performed at higher wind speeds. This unit should be performed when appropriate wind and terrain conditions are available. It should be divided, or repeated, until the student and instructor are quite comfortable with his ability to meet the ACCEPTABLE STANDARD listed below. Some instructors feel training for water landings in high winds is absurd. Perhaps it can be simulated by high winds over grassy fields and by discussion while observing (on the ground) a large body of water during high winds. Most instructors who have experienced an emergency with high winds over water recommend such training.

		1	2	3
A)	PRE-FLIGHT DISCUSSION ..... Instruction and Review	☐	☐	☐
B)	PREVIOUS MANEUVERS ..... Directed Practice	☐	☐	☐
C)	ROUGH TERRAIN LANDINGS (High Wind)	☐	☐	☐
D)	SLOPE LANDINGS (High Wind) ..... Demonstration and Practice	☐	☐	☐
E)	APPROACHES OVER OBSTACLES (High Wind)	☐	☐	☐
F)	CONFINED AREA APPROACH AND LANDINGS (High Wind)	☐	☐	☐
G)	WATER LANDINGS (High Wind)[or acceptable training alternative]	☐	☐	☐
H)	HIGH SPEED LANDING TECHNIQUES (High Ground Winds)	☐	☐	☐
I)	OPERATION NEAR POWER LINES ..... Demonstration and Practice	☐	☐	☐
	[Low Speed- DO NOT PRACTICE IN HIGH WINDS NEAR POWERLINES -- SIMULATE POWERLINES OR OTHER SUCH OBJECT CONDITIONS]			
J)	ABORTED LANDINGS ..... Demonstration and Practice	☐	☐	☐
K)	POST-FLIGHT DISCUSSION ..... Critique Of Entire Lesson	☐	☐	☐
L)	PREVIEW OF NEXT LESSON ..... Review Syllabus Of Unit Eight	☐	☐	☐

KEY: 1=No Assistance Required; 2=Required Some Assistance; 3=Needed Help!

ACCEPTABLE STANDARD: The safe performance of these maneuvers requires the student to display a high degree of understanding and proficiency in all aspects of hot air free balloon operations. His operations of all controls should be positive and indicative of good judgment and planning. He should be able to explain and demonstrate the considerations, precautions, and techniques involved in each of the maneuvers in order to insure its safe completion.

STUDENT _____ CERT # _____ DATE _____

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UNIT EIGHT - PRE-SOLO - PHASE CHECK - EVALUATION

UNIT OBJECTIVE: To evaluate the student's performance and knowledge in order to insure that all maneuvers and procedures in the pre-solo phase of training have been adequately covered and that the student has developed the degree of understanding and proficiency necessary for safe solo flight.

		1	2	3
A)	PRE-FLIGHT DISCUSSION ..... Explanation of Objective	☐	☐	☐
B)	PRE-FLIGHT SHAKEDOWN ..... Instructor Evaluation	☐	☐	☐
	Flight Planning	☐	☐	☐
	Weather Briefings	☐	☐	☐
	Plotting Flight Path	☐	☐	☐
	Selecting Launch Site	☐	☐	☐
	Permission For Site?	☐	☐	☐
	Contacting Crew, Passengers	☐	☐	☐
	Observance Of Surface Winds	☐	☐	☐
	Base Pre-Departure Check List	☐	☐	☐
	Ground Crew Briefing	☐	☐	☐
	Aircraft Documents, Records	☐	☐	☐
	Pre-Flight Inspection	☐	☐	☐
	Controls, Instruments, Batteries	☐	☐	☐
	Basket Rigging	☐	☐	☐
	Tanks, Valves, Hoses, Equipment	☐	☐	☐
	Ignition Equipment	☐	☐	☐
	Envelope Layout	☐	☐	☐
	Burner Test	☐	☐	☐
	Install, Adjust, Check Instruments	☐	☐	☐
	Rip Panel	☐	☐	☐
C)	COLD INFLATION ..... Instructor Evaluation	☐	☐	☐
	Crew Has Gloves On; Arms, Hair Covered	☐	☐	☐
	Safe Fan Operation	☐	☐	☐
	Crowd Control, Handling Lines Clear	☐	☐	☐
	Basket Tied Down When Necessary	☐	☐	☐
D)	HOT INFLATION ..... Instructor Evaluation	☐	☐	☐
	Crowd Control	☐	☐	☐
	Crown Line	☐	☐	☐
	Demonstrate Patience	☐	☐	☐
	Readied To Abort If Needed	☐	☐	☐
E)	PRE-TAKE-OFF CHECK ..... Instructor Evaluation	☐	☐	☐
F)	WEIGH-OFF ..... Instructor Evaluation	☐	☐	☐
	Ascent To Specified Altitude	☐	☐	☐
	Maintenance Of Equilibrium	☐	☐	☐
G)	BASIC AIRWORK ..... Instructor Evaluation	☐	☐	☐
	Climbs At Specified Rate	☐	☐	☐
	Descends At Specified Rate	☐	☐	☐
	Level Flight, Various Altitudes	☐	☐	☐
	Direction Changes	☐	☐	☐
H)	EMERGENCIES (Simulated —feigned— to the extent possible when demonstration with actual condition is inappropriate) ..... Instructor Evaluation	☐	☐	☐
	Fuel Exhaustion	☐	☐	☐
	Fuel System Malfunction	☐	☐	☐
	Regulator Malfunction	☐	☐	☐
	Burner System Failure	☐	☐	☐
	Failure of Maneuvering Vent To Close	☐	☐	☐
	Partial Opening Of Rip Panel In Flight	☐	☐	☐
	Parachute Top Valve Line Failure	☐	☐	☐
	Fuel System Fire	☐	☐	☐
	Sudden Impending Powerlines, Trees, Or Other Hazard	☐	☐	☐
	Thermal Conditions And Response Thereto	☐	☐	☐
	Use Of Emergency Equipment (Extinguisher, Drop-Line, Shroud)	☐	☐	☐
	Sudden Ground Winds	☐	☐	☐
	False Lift	☐	☐	☐
	Ground Assistance, Crowds	☐	☐	☐
	What To Do If Caught In Powerlines	☐	☐	☐
I)	APPROACH AND LANDING TECHNIQUES ..... Instructor Evaluation	☐	☐	☐
	Normal	☐	☐	☐
	Over Obstacles	☐	☐	☐
	Rough Terrain	☐	☐	☐
	Water, Crops, Livestock	☐	☐	☐
J)	DEFLATION ..... Instructor Evaluation	☐	☐	☐
K)	POST-FLIGHT INSPECTION OF CRAFT ..... Instructor Evaluation	☐	☐	☐
L)	POST-FLIGHT DISCUSSION ..... Instructor Evaluation	☐	☐	☐

ACCEPTABLE STANDARD: The student should have achieved reasonable proficiency in all the flight maneuvers on which he has received instruction. He must be able to demonstrate his ability to handle in-flight emergencies in such a manner that the safety of the pilot and aircraft is never in doubt at any point throughout the flight.

Common sense, good judgment, and strict adherence to safety rules and procedures shall be of primary importance in this evaluation of student ability. While the tolerances for each maneuver previously specified in this syllabus must be observed, final judgment of the student's ability to fly the aircraft in solo flight shall be made in light of the flight instructor's experience and knowledge.

KEY: 1=No Assistance Required: 2=Required Some Assistance: 3=Needed Help!

STUDENT _____ CERT # _____ DATE _____

STUDENT INITIALS _____ HRS: GRND _____ AIR _____

INSTRUCTOR'S SIGNATURE _____ CERT # _____

UNIT NINE - DUAL/SOLO FLIGHT

FIRST SUPERVISED SOLO

UNIT OBJECTIVE: To review and practice all previously covered maneuvers and procedures, with particular emphasis on emergency procedures, in preparation for the student's first supervised solo flight. The objective of the solo flight is to increase the student's confidence in his ability to control the aircraft in normal flight operations. No solo cold descents (terminal velocity descents) will be permitted during this solo flight.

NOTE: PRIOR TO THIS UNIT, THE STUDENT MUST HAVE RECEIVED A PASSING GRADE ON THE FAA WRITTEN EXAM FOR HOT AIR BALLOONS! The solo portion of this lesson is to be completed only if calm climatic conditions permit.

		1	2	3
A)	PRE-FLIGHT DISCUSSION ..... Including Review Of Safety Rules And Procedures	☐	☐	☐
B)	INFLATE, LAUNCH, WEIGH-OFF IN DUAL FLIGHT; PERFORM SELECTIVE PRACTICE OF PREVIOUSLY INTRODUCED MANEUVERS; LAND AND STABILIZE ..... Directed Performance	☐	☐	☐
C)	SOLO WEIGH-OFF ..... Supervised Solo	☐	☐	☐
D)	ASCENT TO ALTITUDE; MAINTENANCE OF LEVEL FLIGHT ..... Supervised Solo	☐	☐	☐
E)	INSTRUCTOR-SPECIFIED MANEUVERS ..... Supervised Solo	☐	☐	☐
F)	NORMAL APPROACH AND LANDING; CROP AND LIVESTOCK PRECAUTIONS ..... Supervised Solo	☐	☐	☐
G)	DEFLATION ..... Supervised Performance	☐	☐	☐
H)	LANDOWNER RELATIONS ..... Supervised Performance	☐	☐	☐
I)	POST-FLIGHT INSPECTION OF AIRCRAFT ..... Supervised Performance	☐	☐	☐
J)	POST-FLIGHT DISCUSSION ..... Critique of Entire Lesson	☐	☐	☐
K)	PREVIEW OF NEXT LESSON ..... Review Syllabus Of Unit Ten	☐	☐	☐

KEY: 1=No Assistance Required; 2=Required Some Assistance; 3=Needed Help!

ACCEPTABLE STANDARD: Prior to Solo Flight, the student must demonstrate to his instructor the ability to confidently perform the maneuvers of the pre-solo portion of this syllabus in a safe manner and within the tolerances specified in previous lessons. The flight instructor shall terminate the solo portion by appropriate hand signals or radio communications if, in the instructor's opinion, the student's performance becomes erratic or careless and further solo flight is deemed inadvisable.

STUDENT _____ CERT # _____ DATE _____

STUDENT INITIALS _____ HRS: GRND _____ AIR _____

INSTRUCTOR'S SIGNATURE _____ CERT # _____