

SUNRISE AVIATION, INC.

**COMMERCIAL PILOT
AIRPLANE MULTIENGINE LAND (AMEL)**

FLIGHT TRAINING SYLLABUS

PART 61

JUNE 2011

INTRODUCTION

This Part 61 Commercial Pilot Course (AMEL) Flight Training Syllabus is designed to prepare the applicant for the Commercial Pilot AMEL (initial) practical test. This syllabus only includes the suggested multi-engine flight training. The student must have 250 hours logged by the completion of this course in order to meet Part 61 minimum time requirements.

This flight training syllabus contains 2 stages and 19 lessons. 4 of those lessons are ground training. Additional study items have been inserted into the syllabus and should be completed prior to advancement to the succeeding lessons.

Each lesson includes an “Objective”. “Completion Standards” must be met prior to completion of the lesson. As this is a Part 61 curriculum, the hours in each lesson and stage are for instructor and student guidance. Lesson sequence may be adjusted due to scheduling or other problems as long as training objectives are not compromised. The curriculum is designed so that the applicant can complete all VFR maneuvers in the first stage so that flights in the second stage may be appropriately logged as “Supervised Pilot in Command.”

The instructor will assign a grade (S, U, or I) to each element within a dual lesson and an overall grade to the lesson (S, U, or I) determined by the student’s flying ability and knowledge of the assigned material.

- S= Satisfactory. Student meets the minimum requirements for the task or flight lesson.
- U=Unsatisfactory. Student fails to meet one or more of the minimum requirements for the task or lesson.
- I=Incomplete. The task could not be completed for any reason other than performance. Any lesson with an incomplete task must also be graded incomplete until all tasks are graded as S.

Dual lessons should be preceded and followed by Preflight and Post Flight discussions and briefings. The amount of briefing accomplished should be sufficient to ensure training objectives are met.

Every lesson contains a training outline and a detailed sequence of tasks that the student should successfully complete. Normally, a lesson should be completed in the allotted time. If a student is unable to master the lesson in the specified time, it will be necessary to repeat those elements graded unsatisfactory or incomplete until all completion standards are met.

A chronological log of the training should be kept. This syllabus includes a log that may be used for that record-keeping.

FLIGHT TRAINING TABLE															
LSN #	DATE	FINAL GRADE			X-C		Night							REC TTL	
			Dual	* PIC	Dual	* PIC	Dual	* PIC	* PIC LDG	AMEL	IR	FTD	GD		
MULTI-ENGINE STAGE I															
1													1.0		
2			1.0							1.0				1.0	
3			1.5							1.5				1.5	
4													1.0		
5			1.0							1.0				1.0	
6			1.5							1.5				1.5	
7			2.0		2.0		2.0			2.0	1.0			2.0	
8			1.5				1.5			1.5				1.5	
9			2.0		2.0					2.0	1.0			2.0	
STAGE I TOTAL			10.5		4.0		3.5			10.5	2.0		2.0	10.5	
MULTI-ENGINE STAGE II															
10				3.0		3.0		3.0		3.0				3.0	
11				2.0				2.0	10	2.0				2.0	
12													1.0		
13			1.5							1.5	1.3			1.5	
14			1.5							1.5	1.3			1.5	
15				5.0						1.0				1.0	
16													2.0		
17			1.5							1.5	0.4			1.5	
STAGE II TOTAL			4.5	10.0		3.0		5.0	10	14.5	3.0		3.0	14.5	
STAGE I + II			15.0	10.0	4.0	3.0	3.5	5.0	10	25.0	5.0		5.0	25.0	

FLIGHT TRAINING TABLE: NOTES

- 1) *PIC includes flight time while performing the duties of pilot in command in a multiengine airplane with an authorized instructor on board. A minimum supervised PIC time of 10 hours is required in this course. Included in this time are the long cross-country flight (flight lesson #10) which is programmed to be flown at night (3.0 hours) and the additional required 2 hours in night VFR conditions with 10 takeoffs and 10 landings (with each landing involving a flight with a traffic pattern) at an airport with an operating control tower (flight lesson #11).
- 2) All instrument training logged in this syllabus must be accomplished by using a view-limiting device. 5 hours of instrument training in the multi-engine airplane are required. Students not current on instrument flight might benefit by one or several lessons in the FTD. Instrument time should be logged on flight lessons 7, 9, 13, 14, and 17.
- 3) Students and instructors should take note of the requirement for 3 hours of multiengine training to be logged in a multiengine airplane in preparation for the practical test within 60 days preceding the date of that test. After completion of the course, students should immediately proceed to the Practical Test.

Stage Objective

The student will be introduced to the multiengine airplane. The student will also learn the principles, techniques, and procedures which apply to engine-out situations in the multiengine airplane. The student will be introduced to instrument flight in the multi-engine airplane.

Stage Completion Standards

At the completion of this stage the student must demonstrate the competence to be Pilot in Command of a multiengine airplane under VFR conditions.

NAME: _____ / _____ Date: ____ / ____ / ____ GRADE: _____
 (First) (Last) (U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only N _____

FLIGHT TIME								FLIGHT LESSON # 1				
	Dual	* PIC	X-C		Night			Multi				Total
			Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.											1.0	
Actual												
Prev. Lsn												
New Total												
Rec. Total											1.0	

LESSON OBJECTIVE: During this ground lesson, the student will review basic multiengine topics and procedures.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Introduce</i>			
Certificates and Documents (AMEL)			
Airworthiness Requirements (AMEL)			
Performance and limitations (AMEL)			
Operation of Systems (AMEL)			
Preflight Inspection			
Normal Procedures			
Slow Flight and Stalls			
Steep Turns			
Airport Operations			
– Radio Communications and ATC Light Gun Sig.			
– Traffic Patterns			
– Airport, Runway, and Taxiway Signs, Markings and Lighting			

COMPLETION STANDARDS:

This ground lesson is complete when the student demonstrates familiarity with the lesson topics.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 2				
		* PIC	X-C		Night							
	Dual			Dual	*PIC	Dual	*PIC		*PIC LG	Multi	IR	
Recom.	1.0							1.0				1.0
Actual												
Prev. Lsn												
New Total												
Rec. Total	1.0							1.0			1.0	1.0

LESSON OBJECTIVE: During this flight lesson, the student will become acquainted with the multiengine airplane. Additionally, the student practices the attitudes, power settings, and configurations required for the performance of the listed maneuvers and procedures.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		Airport Operations	
<i>Review</i>		– Radio Communications and ATC Light Gun Sig.	
Performance and limitations (Multiengine)		– Traffic Patterns	
Normal Procedures		– Airport, Runway, and Taxiway Signs, Markings and Lighting	
<i>Introduce</i>		Postflight Procedures	
Preflight Procedures		<i>Post Flight Discussion</i>	
– Preflight Inspection			
– Cockpit Management			
– Engine Starting			
– Taxiing			
– Before Takeoff Check			
Normal and Crosswind Takeoffs and Climbs			
Cruise Flight and Four Fundamentals			
Slow flight			
Normal and Crosswind Approaches and Landings			

COMPLETION STANDARDS:

At the completion of this lesson, the student should be able to perform the listed ground and flight operations with minimal instructor assistance. The student should also demonstrate the knowledge of attitudes, power settings, and configurations necessary to perform the listed maneuvers and procedures.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 3				
	Dual	* PIC	X-C		Night			Multi				Total
			Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.	1.5							1.5				1.5
Actual												
Prev. Lsn												
New Total												
Rec. Total	2.5							2.5			1.0	2.5

LESSON OBJECTIVE:

During this flight lesson, the student will review normal procedures and be introduced to stalls, spin awareness and short field takeoffs and landings in the multiengine airplane.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		<i>Introduce</i>	
<i>Review</i>		Short-field takeoff and climb	
Preflight Procedures		Short-field approach and landing	
– Preflight Inspection		Go-arounds	
– Cockpit Management		Spin awareness	
– Engine Starting		Power off Stalls	
– Taxiing		Power on Stalls	
– Before Takeoff Check		Steep Turns	
Normal and Crosswind Takeoffs and Climbs		<i>Post Flight Discussion</i>	
Cruise Flight and Four Fundamentals			
Drag Changes for Various Configurations			
Normal and Crosswind Approaches and Landings			
Traffic Patterns			
Postflight Procedures			

COMPLETION STANDARDS:

At the completion of this lesson, the student should be able to perform all listed maneuvers and procedures with minimal instructor assistance.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 4				
	Dual	* PIC	X-C		Night			Multi				Total
			Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.											1.0	
Actual												
Prev. Lsn												
New Total												
Rec. Total	2.5							2.5			2.0	2.5

LESSON OBJECTIVE: During this ground lesson, the student will learn emergency operations including engine failures and multiengine operations.

LESSON CONTENT			
Subject	Grade	Subject	Grade
Introduce			
Principles of Flight – Engine Inoperative			
Emergency Operations			
– Emergency Descent			
– Engine Failure During Takeoff Before Vmc			
– Engine Failure after Lift-Off			
– Systems and Equipment Malfunctions			
– Emergency Equipment and Survival Gear			
Multiengine Operations			
– Maneuvering with One Engine Inoperative			
– Vmc Demonstration			
Review			
Performance and Limitations			

COMPLETION STANDARDS:

This ground lesson is complete when the student demonstrates familiarity with the lesson topics.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 5				
		*	X-C		Night							
	Dual		PIC	Dual	*PIC	Dual	*PIC		*PIC LG	Multi	IR	
Recom.	1.0							1.0				1.0
Actual												
Prev. Lsn												
New Total												
Rec. Total	3.5							3.5			2.0	3.5

LESSON OBJECTIVE: During this flight lesson, the student will be introduced to engine inoperative procedures. The student will learn to identify the inop. engine, initiate appropriate corrective procedures, and maneuver the airplane with one engine inop. The student will be introduced to the engine inoperative loss of directional control and flight principles engine inoperative tasks.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		<i>Introduce</i>	
<i>Practice</i>		Emergency operations	
Multiengine Operations		– Maneuvering with one engine inoperative	
Performance And Limitations		(in cruise flight)	
Operation Of Systems		– Engine inoperative-loss of directional control	
		– Engine failure during takeoff before V _{MC}	
		(below 50% V _{MC})	
		– Engine failure after lift-off	
		(simulated above 500 ft)	
		– Approach and landing with an inoperative	
		engine (simulated)	
		– Flight principles engine inoperative (demo only)	
		– One engine shut down	
		– Emergency descent	
		<i>Post Flight Discussion</i>	

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to identify the inoperative engine and use the correct control inputs to maintain straight flight with instructor guidance. The student shall have a complete and accurate knowledge of the cause, effect, and significance of engine-out minimum control speed and recognize the imminent loss of control. **NOTE:** All engine inop. loss of directional control demos in the aircraft shall be COMPLETED no lower than 4,000' AGL.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 6				
	Dual	* PIC	X-C		Night			Multi				Total
			Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.	1.5							1.5				1.5
Actual												
Prev. Lsn												
New Total												
Rec. Total	5.0							5.0			2.0	5.0

LESSON OBJECTIVE: During this flight lesson, the student will review engine inoperative procedures.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		<i>Post Flight Discussion</i>	
<i>Review</i>			
Multiengine Operations			
Performance And Limitations			
Operation Of Systems			
Emergency operations			
– Maneuvering with one engine inoperative (in cruise flight)			
– Engine inoperative-loss of directional control			
– Engine failure during takeoff before V _{MC} (below 50% V _{MC})			
– Engine failure after lift-off (simulated above 500 ft)			
– Approach and landing with an inoperative engine (simulated)			
– Flight principles engine inoperative (demo only)			
– One engine shut down			
– Emergency descent			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to identify the inoperative engine and use the correct control inputs to maintain straight flight with instructor guidance. The student shall have a complete and accurate knowledge of the cause, effect, and significance of engine-out minimum control speed and recognize the imminent loss of control. **NOTE:** All engine inop. loss of directional control demos in the aircraft shall be COMPLETED no lower than 4,000' AGL.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____ Date: ____ / ____ / ____ GRADE: _____
 (First) (Last) (U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only N _____

FLIGHT TIME								FLIGHT LESSON # 7				
		*	X-C		Night							
	Dual	PIC	Dual	*PIC	Dual	*PIC	*PIC LG	Multi	IR	FTD	GD	Total
Recom.	2.0		2.0		2.0			2.0				2.0
Actual												
Prev. Lsn												
New Total												
Rec. Total	7.0		2.0		2.0			7.0	1.0		2.0	7.0

LESSON OBJECTIVE: During this **nighttime** dual cross-country flight lesson, the student develops night cross-country proficiency and confidence in a multiengine airplane. The flight will include a landing at a point more than 100NM from the original point of departure. This lesson must be 2.0 hours or greater.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>			
<i>Practice</i>			
Preflight planning			
– Obtaining and assessing current weather information			
– Completing performance calculations			
– Determining route and altitude			
– Filing flight plan			
Dead reckoning			
Pilotage			
Performance of ground speed and ETA calculations			
VOR or GPS navigation			
Completing cross-country log			
Normal takeoff and landing		Nighttime cross-country >100NM (enter below):	
Use of appropriate checklists		Route:	
Intercepting and Tracking Nav. Systems (IR)			
Instrument Procedures		Landings at:	
Postflight Procedures		<i>Post Flight Discussion</i>	

COMPLETION STANDARDS: The student shall demonstrate skill in cross-country planning by selecting optimum cruising altitudes and appropriate checkpoints for a flight with a landing at a point more than 100NM from the original point of departure. This lesson must satisfy the requirements of 14 CFR Part 61.129 (b) (3) (iv). This flight must be conducted in **night time** conditions.

REMARKS: _____

Student Signature _____

Instructor Signature _____

Print Name _____

NAME: _____ / _____ Date: ____ / ____ / ____ GRADE: ____
 (First) (Last) (U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only N _____

FLIGHT TIME								FLIGHT LESSON # 8				
		* PIC	X-C		Night							
	Dual			Dual	*PIC	Dual	*PIC		*PIC LG	Multi	IR	
Recom.	1.5				1.5			1.5				1.5
Actual												
Prev. Lsn												
New Total												
Rec. Total	8.5		2.0		3.5			8.5	1.0		2.0	8.5

LESSON OBJECTIVE: During this flight lesson, the student will practice night landings in the multiengine airplane.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>			
<i>Practice</i>			
Preflight planning			
– Obtaining and assessing current weather information			
– Completing performance calculations			
Normal takeoff and landing			
Normal approach and landing			
Use of appropriate checklists			
High Altitude Operations			
Postflight Procedures			
<i>Post Flight Discussion</i>			

COMPLETION STANDARDS:

The student should accomplish all the night landings with minimal instructor assistance.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____ Date: ____ / ____ / ____ GRADE: _____
 (First) (Last) (U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only N _____

FLIGHT TIME								FLIGHT LESSON # 9				
		* PIC	X-C		Night							
	Dual			Dual	*PIC	Dual	*PIC		*PIC LG	Multi	IR	
Recom.	2.0		2.0		2.0			2.0	1.0			2.0
Actual												
Prev. Lsn												
New Total												
Rec. Total	10.5		4.0		3.5			10.5	2.0		2.0	10.5

LESSON OBJECTIVE: During this **daytime** dual cross-country flight lesson, the student develops cross-country proficiency and confidence in a multiengine airplane. The flight will include a landing at a point more than 100NM from the original point of departure. The student will also practice normal maneuvers. This lesson must be 2.0 hours or greater.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		Emergency operations	
<i>Practice</i>		– Maneuvering with one engine inoperative (in cruise flight)	
Preflight planning		– Engine failure during takeoff before V _{MC} (below 50% V _{MC})	
– Obtaining and assessing current weather information		– Engine failure after lift-off (simulated above 500 ft)	
– Completing performance calculations		– Approach and landing with an inoperative engine (simulated)	
– Determining route and altitude		High Altitude Operations	
– Filing flight plan		Instrument Procedures	
Dead reckoning		Postflight Procedures	
Pilotage			
Performance of ground speed and ETA calculations		Daytime cross-country >100NM (please enter below)	
VOR or GPS navigation		Route:	
Completing cross-country log			
Short field takeoff and landing		Landings at:	
Use of appropriate checklists			
		<i>Post Flight Discussion</i>	

COMPLETION STANDARDS: The student shall demonstrate skill in cross-country planning by selecting optimum cruising altitudes and appropriate checkpoints for a flight with a landing at a point more than 100NM from the original point of departure. This lesson must satisfy the requirements of 14 CFR Part 61.129 (b) (3) (iii). This flight must be conducted in daylight conditions. The student shall be ready to log supervised PIC time in both day and night VFR conditions.

REMARKS: _____

 Student Signature

 Instructor Signature

 Print Name

Stage Objective

The student will demonstrate pilot-in-command proficiency in the multiengine airplane. The student will complete the long cross-country flight and the night requirements in the multiengine airplane. The student will review IFR procedures and instrument approaches in the multiengine airplane and will learn how to handle engine-out emergencies while flying only by reference to instruments. The student will prepare for the Commercial Pilot (AMEL) practical test.

Completion Standards

At the completion of this course, the student shall perform each of the areas of operation at a proficiency level that meets or exceeds those criteria outlined in the current FAA Commercial Pilot (AMEL) Practical Test Standards.

NAME: _____ / _____ Date: ____ / ____ / ____ GRADE: _____
 (First) (Last) (U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only N _____

FLIGHT TIME								FLIGHT LESSON # 10				
		* PIC	X-C		Night							
	Dual			Dual	*PIC	Dual	*PIC		*PIC LG	Multi	IR	
Recom.		3.0		3.0		3.0	*	3.0				3.0
Actual												
Prev. Lsn												
New Total												
Rec. Total	10.5	3.0	4.0	4.0	3.5	3.0	*	13.5	2.0		2.0	13.5

LESSON OBJECTIVE: During this cross-country flight lesson, the student will build experience and meet the long cross-country supervised solo requirement for a multiengine commercial pilot.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		VFR cross-country, >300 NM (please enter below):	
<i>Practice</i>		Route:	
Preflight planning			
– Obtaining and assessing current weather information		Landings at:	
– Completing performance calculations			
– Determining route and altitude		Secondary Route:	
– Completing cross-country log			
– Filing flight plan		Landings at:	
Dead reckoning		*If landings conducted at an airport with an operating control, reduce landings next lesson.	
Pilotage			
VOR navigation			
Performance of ground speed and ETA calculations		Instructor signature:	
Operations at an unfamiliar tower controlled airport		Date:	
Operations at an unfamiliar UNICOM equipped airport			
Completing cross-country log		<i>Post Flight Discussion</i>	

COMPLETION STANDARDS: This lesson is complete when the student has conducted the assigned supervised solo cross-country flight of not less than 300NM with landings at a minimum of three points, one of which is a straight-line distance of **at least** 250NM from the original departure point. This flight must meet the requirements of 14 CFR Part 61.129 (b) (4) (i).

LESSON OBJECTIVE:

During this supervised PIC lesson, the student will gain proficiency and confidence in the night environment in the multiengine airplane.

REMARKS: _____

 Student Signature

 Instructor Signature

 Print Name

NAME: _____ / _____ Date: ____ / ____ / ____ GRADE: _____
 (First) (Last) (U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only N _____

FLIGHT TIME								FLIGHT LESSON # 11				
		* PIC	X-C		Night							
	Dual			Dual	*PIC	Dual	*PIC		*PIC LG	Multi	IR	
Recom.		2.0				2.0	10	2.0				2.0
Actual												
Prev. Lsn												
New Total												
Rec. Total	10.5	5.0	4.0	3.0	3.5	5.0	10	15.5	2.0		2.0	15.5

LESSON OBJECTIVE: During this supervised PIC night local flight lesson, the student will develop night proficiency and confidence.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>			
<i>Practice</i>			
Preflight planning			
– Obtaining and assessing current weather information			
– Completing performance calculations			
Normal takeoff and landing			
Normal approach and landing			
Use of appropriate checklists			
Postflight procedures			
Note: Takeoffs and landings should be conducted to a full stop at an airport with an operating control tower		<i>Post Flight Discussion</i>	

COMPLETION STANDARDS:

This lesson is complete when the student has conducted the assigned supervised PIC night cross-country flight in the multiengine airplane. **This flight MUST be conducted under supervised PIC and in night VFR conditions. By the conclusion of this lesson at least 10 supervised PIC takeoffs and landings (with each landing involving a flight with a traffic pattern) should be logged at an airport with an operating control tower in night VFR conditions in the multiengine airplane**

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one) PA-44 PA-34 FTD GRD Only **N** _____

FLIGHT TIME								FLIGHT LESSON # 12				
		* PIC	X-C		Night			Multi				Total
	Dual		Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.											1.0	
Actual												
Prev. Lsn												
New Total												
Rec. Total	10.5	5.0	4.0	3.0	3.5	5.0	10	15.5	2.0		3.0	15.5

LESSON OBJECTIVE: During this ground lesson the student will review instrument procedures as applied to the multiengine airplane with emphasis on multiengine operations including one engine inoperative instrument approaches.

[illegible]

COMPLETION STANDARDS:

This ground lesson is complete when the student demonstrates familiarity with the lesson topics.

REMARKS:

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one)

PA-44

PA-34

FTD

GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 13				
	Dual	* PIC	X-C		Night			Multi				Total
			Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.	1.5							1.5	1.3			1.5
Actual												
Prev. Lsn												
New Total												
Rec. Total	12.0	5.0	4.0	3.0	3.5	5.0	10	17.0	3.3		3.0	17.0

LESSON OBJECTIVE:

During this flight lesson, the student will practice basic instrument flight and instrument approaches with both engines operating and with one engine inoperative.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Procedures</i>			
<i>Review</i>			
Basic Attitude Instrument Flight			
Engine Failures			
– During Straight and Level			
– During Turns			
– During Climbs			
– During Descents			
– Engine Shutdown and Feathering			
Instrument Approach - All Engines Operating			
– Precision Approach			
– Non-Precision Approach			
Instrument Approach - One Engine Inoperative			
– Precision Approach			
– Non-precision Approach			
<i>Post Flight Discussion</i>			

COMPLETION STANDARDS: At the completion of this lesson, the student shall demonstrate instrument proficiency at the level of an instrument rated pilot during all normal operations. During engine-out operations, the student should readily identify the inoperative engine, simulate feathering and shut-down using the appropriate procedures and checklists. The student should fly single-engine instrument approaches with minimal instructor assistance.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____ Date: ____ / ____ / ____ GRADE: ____
 (First) (Last) (U, S, or I)

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FLIGHT TIME								FLIGHT LESSON # 14				
	Dual	* PIC	X-C		Night			Multi				Total
			Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.	1.5							1.5	1.3			1.5
Actual												
Prev. Lsn												
New Total												
Rec. Total	13.5	5.0	4.0	3.0	3.5	5.0	10	18.5	4.6		3.0	18.5

LESSON OBJECTIVE:

During this flight lesson, the student will practice basic instrument flight and instrument approaches with both engines operating and with one engine inoperative.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Procedures</i>			
<i>Review</i>			
Basic Attitude Instrument Flight			
Engine Failures			
– During Straight and Level			
– During Turns			
– During Climbs			
– During Descents			
– Engine Shutdown and Feathering			
Instrument Approach - All Engines Operating			
– Precision Approach			
– Non-Precision Approach			
Instrument Approach - One Engine Inoperative			
– Precision Approach			
– Non-precision Approach			
<i>Post Flight Discussion</i>			

COMPLETION STANDARDS: At the completion of this lesson, the student should demonstrate instrument proficiency on all tasks.

REMARKS: _____

 Student Signature

 Instructor Signature

 Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

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FTD

GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 15				
		* PIC	X-C		Night							
	Dual			Dual	*PIC	Dual	*PIC		*PIC LG	Multi	IR	
Recom.		5.0						5.0				5.0
Actual												
Prev. Lsn												
New Total												
Rec. Total	13.5	10.0	4.0	3.0	3.5	5.0	10	23.5	4.6		3.0	23.5

LESSON OBJECTIVE: During this flight lesson, the student will practice the VFR multiengine maneuvers listed. This lesson may be repeated as often as necessary to complete the 10 hours supervised PIC.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		Postflight Procedures	
<i>Practice</i>		<i>Post Flight Discussion</i>	
Preflight Procedures			
– Preflight Inspection			
– Cockpit Management			
– Engine Starting			
– Taxiing			
– Before Takeoff Check			
Normal and Crosswind Takeoffs and Climbs			
Go Around/Rejected Landing			
Vmc Demonstration			
Normal and Crosswind Approaches and Landings			
Traffic Patterns			
Power off Stalls			
Power on Stalls			
Steep Turns			
Short-field takeoff and climb			
Short-field approach and landing			

COMPLETION STANDARDS: This lesson is complete when the 10 hours of flight time while performing the duties of pilot in command in a multiengine airplane with an authorized instructor on board per 14 CFR 61.129 (b) (4) has been completed. The student will continue to operate the aircraft safely without instructor assistance.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one)

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FTD

GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 16				
		*	X-C		Night							Total
	Dual	PIC	Dual	*PIC	Dual	*PIC	*PIC LG		IR	FTD	GD	
Recom.											2.0	
Actual												
Prev. Lsn												
New Total												
Rec. Total	13.5	10.0	4.0	3.0	3.5	5.0	10	23.5	4.6		5.0	23.5

LESSON OBJECTIVE: This ground lesson conducted by the flight instructor reviews preflight tasks in preparation for the Practical Test. In addition, documents and endorsements are reviewed.

LESSON CONTENT			
Subject	Grade	Subject	Grade
Review			
Preflight preparation			
– Certificates and documents			
– Weather information			
– Cross-county flight planning			
– National Airspace System			
– Performance and limitations			
– Operation of systems			
– Aeromedical factors			
Introduce			
Current 8710-1 application and ACRA or I-ACRA			
Required endorsements			
Paperwork close-out procedures			

COMPLETION STANDARDS:

At the completion of this lesson, the student shall exhibit a complete understanding of the preflight area of operations and meet or exceed the proficiency required by the current FAA Commercial Pilot (AMEL) Practical Test Standards.

REMARKS: _____

Student Signature

Instructor Signature

Print Name

NAME: _____ / _____
(First) (Last)

Date: ____ / ____ / ____

GRADE: _____
(U, S, or I)

AIRCRAFT (Circle one)

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FTD

GRD Only

N _____

FLIGHT TIME								FLIGHT LESSON # 17				
		*	X-C		Night							
	Dual	PIC	Dual	*PIC	Dual	*PIC	*PIC LG	Multi	IR	FTD	GD	Total
Recom.	1.5							1.5	0.4			1.5
Actual												
Prev. Lsn												
New Total												
Rec. Total	15.0	10.0	4.0	3.0	3.5	5.0	10	25.0	5.0		5.0	25.0

LESSON OBJECTIVE:

This dual flight lesson reviews previous maneuvers in preparation for the Practical Test.

LESSON CONTENT				
Subject		Grade	Subject	Grade
Preflight procedures			Emergency operations	
– Preflight inspection			– Emergency descent	
– Cockpit management			– Engine Failure During Takeoff Before V _{MC}	
– Engine starting			(below 50% V _{MC})	
– Taxiing			– Engine Failure After Lift-Off (Simulated)	
– Before takeoff check			– Approach and Landing with an Inoperative	
Airport operations			Engine (Simulated)	
– Radio Communications and ATC light signals			– Systems and Equipment Malfunctions	
– Traffic patterns			– Emergency Equipment and Survival Gear	
– Airport, taxiway, and runway signs, markings,			High altitude operations	
and lighting			– Supplemental oxygen	
Takeoffs, landings, and go-arounds			– Pressurization	
– Normal and crosswind takeoff and climb			MULTIENGINE OPERATIONS	
– Normal and crosswind approach and landing			– Maneuvering with One Engine Inoperative	
– Short-field takeoff and climb			– V _{mc} Demonstration	
– Short-field approach and landing			– Engine failure during Flight (IR)	
– Go-around/Rejected Landing			– Instrument Approach-One Engine Inop (IR)	
Performance maneuvers			Post flight procedures	
– Steep turns			– After landing, Parking, and Securing	
Navigation			<i>Post-Flight Discussion</i>	
– Pilotage and dead reckoning				
– Navigation systems and radar services				
– Diversion				
– Lost procedure				
Slow flight and stalls				
– Maneuvering during slow flight				
– Power-off stalls				
– Power-on stalls				
– Spin awareness				

Flight Lesson 17. Continued from Previous Page.**COMPLETION STANDARDS:**

At the completion of this flight, the student shall demonstrate the necessary knowledge and skill to operate safely as a commercial pilot in a multiengine airplane. The student's performance during each task shall meet or exceed the proficiency required by the current FAA Commercial Pilot (AMEL) Practical Test Standards.

REMARKS: _____

Student Signature_____
Instructor Signature_____
Print Name