



**Multi-Engine
Rating Course
(AMEL)
Flight Training Syllabus
FAR Part 61**

Property of Tech Aviation Flight School. Reproduction of this manual in full or part is strictly prohibited by law. Distribution or use outside of Tech Aviation Flight School operations is prohibited.

LIST OF EFFECTIVE PAGES

SECTION:	PAGE:	TITLE:	REV #:	DATE:
Introduction	1 of 1	List of Effective Pages	Orig	9/14/2006
Introduction	1 of 5	Introduction	Orig	9/14/2006
Introduction	2 of 5	Introduction	Orig	9/14/2006
Introduction	3 of 5	Introduction	Orig	9/14/2006
Introduction	4 of 5	Introduction	Orig	9/14/2006
Introduction	5 of 5	Introduction	Orig	9/14/2006
I	1 of 12	Stage I	Orig	9/14/2006
I	2 of 12	Lesson # 601	Orig	9/14/2006
I	3 of 12	Lesson # 602	Orig	9/14/2006
I	4 of 12	Lesson # 603	Orig	9/14/2006
I	5 of 12	Lesson # 604	Orig	9/14/2006
I	6 of 12	Lesson # 605	Orig	9/14/2006
I	7 of 12	Lesson # 606	Orig	9/14/2006
I	8 of 12	Lesson # 607	Orig	9/14/2006
I	9 of 12	Lesson # 608	Orig	9/14/2006
I	10 of 12	Lesson # 609	Orig	9/14/2006
I	11 of 12	Lesson # 610	Orig	9/14/2006
I	12 of 12	Lesson # 611 Stage Check	Orig	9/14/2006
II	1 of 6	Stage II	Orig	9/14/2006
II	2 of 6	Lesson # 612	Orig	9/14/2006
II	3 of 6	Lesson # 613	Orig	9/14/2006
II	4 of 6	Lesson # 614	Orig	9/14/2006
II	5 of 6	Lesson # 615	Orig	9/14/2006
II	6 of 6	Lesson # 616 End-Of-Course	Orig	9/14/2006

TECH AVIATION FLIGHT SCHOOL, INC.

**MULTI-ENGINE RATING COURSE
AIRPLANE MULTI-ENGINE LAND (AMEL)
FLIGHT TRAINING SYLLABUS**

PRINT STUDENT NAME:

LAST NAME, FIRST NAME

**____/____/____
DATE (mm/dd/yyyy)**

This publication was compiled and edited by the Tech Aviation Flight School, Inc. Its reproduction in whole or in part is expressly prohibited without the permission of Tech Aviation Flight School, Inc.

INTRODUCTION

The Multi-Engine Rating Course (Airplane) flight-training syllabus is designed to meet or exceeds the requirements of 14 CFR 61.65.

Its design will allow an enrolled appropriately rated Private or Commercial Pilot student to acquire the proficiency and experience needed to meet the certification requirements for adding a U.S. FAA Multi-Engine Rating (Airplane) to an existing Private or Commercial Pilot Certificate (ASEL). The performance criteria specified in the syllabus is based on the current FAA Multi-Engine Pilot (AMEL) Practical Test Standards (PTS). All enrolled students of this course must meet these standards before graduating from this course.

This flight-training syllabus contains two (2) stages and includes sixteen separate lessons. Each lesson includes an objective and a completion standard. Each completion standard must be met in its entirety before that lesson may be considered complete. The individual lesson and stage times indicated are not mandatory and are included for flight instructor and student guidance only. However, before graduation from the course, a student must meet the following minimum training hours:

Dual Flight Training Multi-Engine
15.0

Additional training requirements that must also be accomplished before graduation are included, as appropriate, in the Flight Training syllabus and the Multi-Engine Rating Ground Training Syllabus.

Within each stage, lesson sequences may be adjusted as necessary to accommodate training continuity problems. This is permitted as long as training objectives are not compromised.

The flight instructor will assign a grade “S”(Satisfactory), “U”(Unsatisfactory), or “I”(Incomplete) to each element within a lesson and an “S”, “U”, or “I” for the overall lesson grade. Dual lessons should be preceded and followed by pre-flight (pre) and post-flight (post) briefings. Although 14 CFR Part 61 does not specify a minimum number of hours for pre and post briefings, the amount of briefing time accomplished must be sufficient to ensure that the student understands the lesson objectives and completion standards for each lesson.

Every lesson contains an outline and detailed sequence of elements that the student must successfully complete. Normally, a lesson is expected to be satisfactory completed within the recommended time. However, if a student is unable to master the lesson in that time, it will be necessary to repeat those elements graded “I” or “U” until those lesson elements meet the lesson completion standards and are graded “S”.

At the end of each stage of training a stage check has been included to check the student’s progress. Each stage check must be accomplished satisfactorily before the student may continue training in the next stage. The final lesson of the flight-training syllabus is the stage check/end-of-course test. This lesson is designed to ensure that the student has acquired the aeronautical knowledge and flight skills required by the current FAA Commercial Pilot (ASEL) Practical Test Standards (PTS).

TRAINING SYLLABUS

- I. ENROLLMENT PREREQUISITES:** To enroll in the Multi-Engine Rating Course (Airplane), the applicant must hold a current private or commercial pilot certificate with a single-engine land aircraft category and class rating prior to beginning the flight portion of the course.
- II. GROUND TRAINING REQUIREMENTS:** The applicant must successfully complete all required ground training lessons including the Final Stage Check.
- III. FLIGHT TRAINING REQUIREMENTS:** The applicant must successfully complete all flight training lessons, stage checks, and end of course tests.
- IV. REQUIREMENTS FOR GRADUATION:** To obtain a graduation certificate for the Multi-Engine Rating Course (AMEL), the applicant must:
 - a.** Hold at least a current private pilot certificate with an airplane single-engine land category and class rating;
 - b.** Be able to read, speak, write, and understand the English language;
 - c.** Complete all ground training requirements;
 - d.** Complete all flight training requirements; and
 - e.** Hold a valid FAA medical certificate.

GRADING CRITERIA

FOR THE STUDENT AND INSTRUCTOR:

- I.** The overall performance grade for each lesson completed is based on the knowledge, preparation, skill, attitude, and judgment of the student.
- II.** The standards to be used in the end of course tests will be at least those listed in the appropriate FAA Private/Commercial Pilot (AMEL) Practical Test Standards.

The student should be evaluated on performance, both in academic ability as well as flying ability. A lesson is not complete until the instructor is satisfied that the student's performance meets the completion standards in all areas, and awards the student a grade of Satisfactory (S) on each element within the lesson, and a grade of 70% or higher or Satisfactory (S) on the entire lesson.

FLIGHT TRAINING WORKSHEETS

LESSON #	DATE	A/C	ACT. TTL	GRADE	DUAL	X-C DUAL	IFR	FTD	GRD	REC. TTL	FLT STG <input type="checkbox"/>
MULTI-ENGINE STAGE I											
601									2.0		
602									2.0		
603					1.0					1.0	
604									2.0		
605					1.5					1.5	
606									2.0		
607									1.0		
608					1.5					1.5	
609					2.0	2.0				2.0	
610					1.5					1.5	
611					1.5				1.0	1.5	
STAGE I TOTAL:					9.0	2.0	0.0	0.0	10.0	9.0	0.0
MULTI-ENGINE STAGE II											
612									2.0		
613					1.5		1.3			1.5	
614					1.5		0.5		1.0	1.5	
615					1.5		0.5		1.0	1.5	
616					1.5		0.5		1.0	1.5	
STAGE II TOTAL:					6.0	0.0	2.8	0.0	5.0	6.0	0.0
STAGE I+II TOTAL:					15.0	2.0	2.8	0.0	15.0	15.0	0.0

-
- √ Stage Check
 - ◆ Course Completion Check

NOTE: All lessons indicating FTD (Flight Training Device) may also be completed in an appropriate aircraft.

STAGE I

STAGE OBJECTIVE

During this stage, the student will learn multiengine aerodynamics, operational procedures, systems, and performance considerations. The student will learn to compute weight and balance data accurately and to control the weight and balance conditions of the multiengine airplane. In addition, the student will learn to analyze multiengine performance factors and derive accurate values from multiengine charts. Also, the student will learn the principles, techniques, and procedures which apply to engine-out aerodynamics in the multiengine airplane.

STAGE COMPLETION STANDARDS

To complete this stage, the student must satisfactorily complete both a knowledge and a flight test. The knowledge test must be passed with a minimum score of 70%. The incorrect answers on the knowledge test must be reviewed in order to ensure complete understanding.

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ **GRADE:** _____
 (0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME		GROUND LESSON				#601
	Dual	X-C Dual	IFR	FTD	GRD	Total
Recommended					2.0	
This Lesson						
Previous Lesson						
New Total						
Recomm. Total					2.0	

LESSON OBJECTIVE:

During this ground lesson, the student will learn about multiengine airplane systems.

Subject	Grade	Subject	Grade
Introduce			
Operation of Systems			
- Primary flight controls and trim			
- Flaps, leading edge devices and spoilers			
- Powerplant and propeller			
- Landing gear system			
- Fuel, oil, and hydraulic systems			
- Electrical system			
- Avionics system			
- Pitot-Static system, vacuum/pressure system and associated flight instruments			
Post Ground Discussion			

COMPLETION STANDARDS:

At the completion of this ground lesson, the student should have a basic understanding of the general systems of this multiengine airplane.

REMARKS: _____

 Student Signature

 Instructor Signature

 Print Name

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ **GRADE:** _____
(0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME		FLIGHT LESSON #603				
	Dual	X-C Dual	IFR	FTD	GRD	Total
Recommended	1.0					1.0
This Lesson						
Previous Lesson						
New Total						
Recomm. Total	1.0				4.0	1.0

LESSON OBJECTIVE:

During this flight lesson, the student will become acquainted with the training airplane. Additionally, the student will learn the attitudes, power settings, and configurations required for the performance of the listed maneuvers and procedures.

LESSON CONTENT				
Subject	Grade	Subject	Grade	
Preflight Discussion				
Review				
Performance and Limitations (Multiengine)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Postflight Procedures	<input type="checkbox"/> <input type="checkbox"/>	
Normal Procedures		Post Flight Discussion		
Introduce				
Preflight Procedures				
- 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				
Traffic Patterns				

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

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ **GRADE:** _____
 (0-99%, U, S, or I)

AIRCRAFT MODEL: _____ **N** _____

FLIGHT TIME		FLIGHT LESSON #608				
	Dual	X-C Dual	IFR	FTD	GRD	Total
Recommended This Lesson	1.5					1.5
Previous Lesson						
New Total						
Recomm. Total	4.0				9.0	4.0

LESSON OBJECTIVE:

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

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion</i>		<i>Introduce</i>	
<i>Review</i>			
Multiengine Operations		Emergency operations	
Performance and Limitations		- Maneuvering with one engine inoperative (in cruise flight)	
Operation of Systems		- Engine inoperative-loss of directional control	
		- Engine failure during takeoff before Vmc (below 50% Vmc)	
		- Engine failure after lift-off (simulated above 500 feet)	
		- Approach and landing with an inoperative engine (simulated)	
		- Flight principles engine inoperative (in flight)	
		- 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 inputs to maintain straight flight. 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 inoperative loss of directional control demonstrations shall be completed no lower than 4,000' AGL.

REMARKS: _____

 Student Signature

 Instructor Signature

 Print Name

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ **GRADE:** _____
 (0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME		FLIGHT LESSON #609				
	Dual	X-C Dual	IFR	FTD	GRD	Total
Recommended	2.0	2.0				2.0
This Lesson						
Previous Lesson						
New Total						
Recomm. Total	6.0	2.0			9.0	6.0

LESSON OBJECTIVE:

During this day VFR 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.

LESSON CONTENT			
Subject	Grade	Subject	Grade
Preflight Discussion Practice			
Preflight Planning		Use of appropriate checklists	
- Obtaining and assessing current weather info.		VFR cross-country, >100NM	
- Completing performance calculations		Route:	
- Determining route and altitude		Landings at:	
- Filing flight plan			
Dead reckoning			
Pilotage		Secondary route:	
Diversion			
Performance of groundspeed and ETA calc.		Landings at:	
VOR and ADF navigation			
Completing cross-country log			
Short field takeoff and landing			
Post Flight Discussion			

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. Additionally, the student shall verify position, altitude, heading and arrival times at the en-route checkpoints within the parameters as specified in the current FAA Private or Commercial Pilot (AMEL) Practical Test Standards as appropriate. This lesson satisfies the requirements of 14 CFR Part 141 Appendix D (4) (b) (2) (iii).

REMARKS: _____

 Student Signature

 Instructor Signature

 Print Name

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ GRADE: _____
(0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME		FLIGHT LESSON #610				
	Dual	X-C Dual	IFR	NIGHT	GRD	Total
Recommended This Lesson	1.5					1.5
Previous Lesson						
New Total						
Recomm. Total	7.5	2.0			9.0	7.5

LESSON OBJECTIVE:

During this flight lesson, the student will review all areas of operation and procedures in preparation for the Stage one Check.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion (Oral)</i>		SLOW FLIGHT AND STALLS	
PREFLIGHT PREPARATION		- Manuevering During Slow Flight	
- Certificates and Documents		- Power-On Stalls	
Performance and Limitations		- Power-Off Stalls	
- Principles of Flight - Engine Inoperative		- Spin Awareness	
- Operation of Systems		EMERGENCY OPERATIONS	
<i>Flight Evaluation</i>		- Emergency Descent	
PREFLIGHT PROCEDURES		- Manuevering with One Engine Inoperative	
- Preflight Inspection		- Engine Inoperative Loss of DiR. Control Demonstration	
- Cockpit Management		- Engine Failure on Takeoff Befroe Vmc (Below 50% Vmc)	
- Engine Starting		- Engine Failure After Lift-Off (simulated)	
- Taxiing		- Approach and Landing with an Inoperative Engine (Simulated)	
- Before Takeoff Checks			
AIRPORT OPERATIONS		- Systems and Equipment Malfunctions	
- Traffic Patterns		- Emergency Equipment and Survival Gear	
TAKEOFFS, LANDINGS AND GO-AROUNDS		MULTIENGINE OPERATIONS	
- Normal and Crosswind Takeoffs and Climb		- Engine Failure During Flight	
- Normal and Crosswind App and Landing		POSTFLIGHT PROCEDURES	
- Short-Field Takeoff and Climb		- After Landing	
- Short-Field Approach and Landing		- Parking and Securing	
- Go-Around			
PERFORMANCE MANUEVER			
- Steep Turns			

COMPLETION STANDARDS:

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

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

REMARKS: _____

Student Signature

Instructor Signature

/ _____
Print Name

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ GRADE: _____
(0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME	STAGE 1 CHECK			FLIGHT LESSON #611		
	Dual	X-C Dual	IFR	NIGHT	GRD	Total
Recommended	1.5				1.0	1.5
This Lesson						
Previous Lesson						
New Total						
Recomm. Total	9.0	2.0			10.0	9.0

LESSON OBJECTIVE:

This stage check conducted by the chief or assistant chief flight instructor, will determine that the student meets the proficiency requirements for a multiengine land class rating limited to VFR only.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Preflight Discussion (Oral)</i>		SLOW FLIGHT AND STALLS	
PREFLIGHT PREPARATION		- Manuevering During Slow Flight	
- Certificates and Documents		- Power-On Stalls	
Performance and Limitations		- Power-Off Stalls	
- Principles of Flight - Engine Inoperative		- Spin Awareness	
- Operation of Systems		EMERGENCY OPERATIONS	
<i>Flight Evaluation</i>		- Emergency Descent	
PREFLIGHT PROCEDURES		- Manuevering with One Engine Inoperative	
- Preflight Inspection		- Engine Inoperative Loss of DiR. Control	
- Cockpit Management		Demonstration	
- Engine Starting		- Engine Failure on Takeoff Befroe Vmc	
- Taxiing		(Below 50% Vmc)	
- Before Takeoff Checks		- Engine Failure After Lift-Off (simulated)	
AIRPORT OPERATIONS		- Approach and Landing with an Inoperative	
- Traffic Patterns		Engine (Simulated)	
TAKEOFFS, LANDINGS AND GO-AROUNDS		- Systems and Equipment Malfunctions	
- Normal and Crosswind Takeoffs and Climb		- Emergency Equipment and Survival Gear	
- Normal and Crosswind App and Landing		MULTIENGINE OPERATIONS	
- Short-Field Takeoff and Climb		- Engine Failure During Flight	
- Short-Field Approach and Landing		POSTFLIGHT PROCEDURES	
- Go-Around		- After Landing	
PERFORMANCE MANUEVER		- Parking and Securing	
- Steep Turns			

Continued on next page

STAGE II

Stage Objective

During this stage, the student will review IFR procedures and will be introduced to multiengine instrument procedures. The student will also learn how to handle engine-out emergencies while only using reference to instruments.

Stage Completion Standards

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

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ **GRADE:** _____
(0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME		FLIGHT LESSON #613				
	Dual	X-C Dual	IFR	NIGHT	GRD	Total
Recommended This Lesson	1.5		1.3			1.5
Previous Lesson						
New Total						
Recomm. Total	10.5	2.0	1.3		12.0	10.5

LESSON OBJECTIVE:

During this flight lesson, the student will practice basic attitude instrument flight and instrument approaches under normal conditions and during single engine operations.

LESSON CONTENT			
Subject	Grade	Subject	Grade
Preflight Procedures		Post Flight Discussion	
Review			
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			
- ILS Approach			
- VOR Approach			
- NDB Approach			
Instrument Approach - One Engine Inoperative			
- ILS Approach			
- VOR Approach			
- NDB Approach			

COMPLETION STANDARDS:

At the completion of this lesson, the student shall demonstrate instrument proficiency at the level of an instrument rated pilot. During engine-out operations, the student shall readily identify the inoperative engine, shut-down and feather the appropriate engine using the appropriate procedures and checklists.

REMARKS: _____

Student Signature

Instructor Signature / _____
Print Name

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ GRADE: _____
(0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME		FLIGHT LESSON #614				
	Dual	X-C Dual	IFR	NIGHT	GRD	Total
Recommended	1.5		0.5		1.0	1.5
This Lesson						
Previous Lesson						
New Total						
Recomm. Total	12.0	2.0	1.8		13.0	12.0

LESSON OBJECTIVE:

During this lesson, the student will review all maneuvers for the final stage check.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Oral</i>		EMERGENCY OPERATIONS	
PREFLIGHT PREPARATION		- Emergency Descent	
- Performance And Limitations		- Maneuvering with One Engine Inoperative	
- Principles of Flight - Engine Inoperative		- Engine Inoperative - Loss of Directional Control Demonstration	
- Operation Of Systems		- Engine Failure on Takeoff Before Vmc (below 50% Vmc)	
<i>Flight Evaluation</i>		- Engine Failure After Lift-Off (Simulated)	
PREFLIGHT PROCEDURES		- Approach and Landing with an Inoperative Engine (Simulated)	
- Preflight Inspection		- Systems and Equipment Malfunctions	
- Cockpit Management		- Emergency Equipment and Survival Gear	
- Engine Starting		MULTIENGINE OPERATIONS	
- Taxiing		- Engine Failure During Flight (By Reference to Instruments)	
- Before Takeoff Check		- Instrument Approach - All Engines Operating	
AIRPORT OPERATIONS		- Instrument Approach - One Engine Inoperative	
- Traffic Patterns		POSTFLIGHT PROCEDURES	
TAKEOFFS, LANDINGS, AND GO-AROUNDS		- After Landing	
- Normal and Crosswind Takeoffs and Climb		- Parking and Securing	
- Normal and Crosswind Approach and Landing			
- Short-Field Takeoff and Climb			
- Short-Field Approach and Landing			
-Go-Around			
PERFORMANCE MANUEVER			
- Steep Turns			
SLOW FLIGHT AND STALLS			
- Manuevering During Slow Flight			
- Power-On Stalls			
- Power-Off Stalls			
- Spin Awareness			

Continued on next page

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

COMPLETION STANDARDS:

At the completion of this lesson, the student shall be able to perform all listed maneuvers and procedures without instructor assistance. The student shall also meet or exceed the current FAA Private or Commercial Pilot (AMEL) Practical Test Standards, as applicable.

REMARKS:

Student Signature

Instructor Signature

/ _____
Print Name

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ GRADE: _____
(0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

FLIGHT TIME		FLIGHT LESSON #615				
	Dual	X-C Dual	IFR	NIGHT	GRD	Total
Recommended	1.5		0.5		1.0	1.5
This Lesson						
Previous Lesson						
New Total						
Recomm. Total	13.5	2.0	2.3		14.0	13.5

LESSON OBJECTIVE:

During this lesson, the flight instructor will determine that the student meets the proficiency requirements for a private or commercial multiengine land class rating for VFR and IFR.

LESSON CONTENT			
Subject	Grade	Subject	Grade
<i>Oral</i>		EMERGENCY OPERATIONS	
PREFLIGHT PREPARATION		- Emergency Descent	
- Performance And Limitations		- Manuevering with One Engine Inoperatie	
- Principles of Flight - Engine Inoperative		- Engine Inoperative - Loss of Directional Control Demonstration	
- Operation Of Systems		- Engine Failure on Takeoff Before Vmc (below 50% Vmc)	
<i>Flight Evaluation</i>		- Engine Failure After Lift-Off (Simulated)	
PREFLIGHT PROCEDURES		- Approach and Landing with an Inoperative Engine (Simulated)	
- Preflight Inspection		- Systems and Equipment Malfunctions	
- Cockpit Management		- Emergency Equipment and Survival Gear	
- Engine Starting		MULTIENGINE OPERATIONS	
- Taxiing		- Engine Failure During Flight (By Reference to Instruments)	
- Before Takeoff Check		- Inst Approach - All Engines Operating	
AIRPORT OPERATIONS		- Inst Approach - One Engine Inoperative	
- Traffic Patterns		POSTFLIGHT PROCEDURES	
T/O'S, LANDINGS, AND GO-AROUNDS		- After Landing	
- Normal and Crosswind Takeoffs and Climb		- Parking and Securing	
- Normal and Crosswind App and Landing			
- Short-Field Takeoff and Climb			
- Short-Field Approach and Landing			
-Go-Around			
PERFORMANCE MANUEVER			
- Steep Turns			
SLOW FLIGHT AND STALLS			
- Manuevering During Slow Flight			
- Power-On Stalls			
- Power-Off Stalls			
- Spin Awareness			

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

COMPLETION STANDARDS:

The student shall perform each of the listed areas of operation and tasks at a proficiency level that meets or exceeds those criteria outlines in the current FAA Private or Commercial Pilot (AMEL) Practical Test Standards, as applicable.

REMARKS: _____

Student Signature

Instructor Signature

/ _____
Print Name

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

DATE: ___ / ___ / ___ GRADE: _____
(0-99%, U, S, or I)

AIRCRAFT MODEL: _____ N _____

<i>End-Of-Course-Check</i>			FLIGHT LESSON #616			
	Dual	X-C Dual	IFR	NIGHT	GRD	Total
Recommended	1.5		0.5		1.0	1.5
This Lesson						
Previous Lesson						
New Total						
Recomm. Total	15.0	2.0	2.8		15.0	15.0

LESSON OBJECTIVE:

During this End-of-Course Check, the chief or assistant chief flight instructor will determine that the student meets the requirements of the current FAA Private or Commercial Pilot (AMEL) Practical Test Standards (PTS), as applicable.

LESSON CONTENT			
Subject	Grade	Subject	Grade
		<i>Oral</i>	
		EMERGENCY OPERATIONS	
PREFLIGHT PREPARATION		- Emergency Descent	
- Performance And Limitations		- Manuevering with One Engine Inoperatie	
- Principles of Flight - Engine Inoperative		- Engine Inoperative - Loss of Directional	
- Operation Of Systems		Control Demonstration	
		- Engine Failure on Takeoff Before Vmc	
<i>Flight Evaluation</i>		(below 50% Vmc)	
PREFLIGHT PROCEDURES		- Engine Failure After Lift-Off (Simulated)	
- Preflight Inspection		- Approach and Landing with an Inoperative	
- Cockpit Management		Engine (Simulated)	
- Engine Starting		- Systems and Equipment Malfunctions	
- Taxiing		- Emergency Equipment and Survival Gear	
- Before Takeoff Check		MULTIENGINE OPERATIONS	
AIRPORT OPERATIONS		- Engine Failure During Flight	
- Traffic Patterns		(By Reference to Instruments)	
T/O'S, LANDINGS, AND GO-AROUNDS		- Inst Approach - All Engines Operating	
- Normal and Crosswind Takeoffs and Climb		- Inst Approach - One Engine Inoperative	
- Normal and Crosswind App and Landing		POSTFLIGHT PROCEDURES	
- Short-Field Takeoff and Climb		- After Landing	
- Short-Field Approach and Landing		- Parking and Securing	
-Go-Around			
PERFORMANCE MANUEVER			
- Steep Turns			
SLOW FLIGHT AND STALLS			
- Manuevering During Slow Flight			
- Power-On Stalls			
- Power-Off Stalls			
- Spin Awareness			

TECH AVIATION FLIGHT SCHOOL, INC.

Multi-Engine Rating Course-AMEL

Flight Training Syllabus

COMPLETION STANDARDS:

The student shall perform each of the listed areas of operation and tasks at a proficiency level that meets or exceeds those criteria outlined in the current FAA Private or Commercial Pilot (AMEL) Practical Test Standards, as applicable.

NOTE: Those applicants not requesting instrument privileges in the multiengine airplane need not complete the instrument maneuvers.

REMARKS: _____

Student Signature

Instructor Signature

/ _____
Print Name

