

# **TRAINING COURSE OUTLINE**

Bridgewater State University holds Pilot School Certificate No. **LY8S311Q**.

Bridgewater State University is an accredited four-year degree granting institution within the state of Massachusetts higher educational system. The base of operations/business address is 111 Harrington Hall, Bridgewater, MA 02325.

## **COMMERCIAL PILOT COURSE –141.55 (E)**

The Facilities Manual is Part 1 of the Training Course Outline and meets the requirements of 14 CFR Part 141.55 (C), subsections 1-5.

Ground and Flight Course Manuals are contained in Part 2 and meet the requirements of the Training Course Outline specified in 14 CFR 141.55 (D) and (E).





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## RECORD OF REVISIONS

REV. #	DATE	CONTENT
I	5/22/2015	Clarifies minimum x-country solo flight time requirements in the complex aircraft on lessons 18 and 19.
II	12/14/16	Updates personnel listing
III	6/12/17	Converts ground and flight training courses to Airman Certification Standards. Adds reference to BSU Hazardous Information Tracking (HIT) form and Emergency Response Plan (ERP) in various ground and flight lessons. Adds task “Impossible Turn” in various ground and flight lessons.
IV	1/12/18	Change of Chief Instructor/Assistant Chief Instructor(s), addition of Redbird AATD.
V	6/21/21	Change of Chief and Assistant Chief Instructors, addition of TAA capability, removal of PA-34 Seneca, updated airport diagram, removal of all references to multi-engine aircraft, addition of TAA tasks in stage II ground course and stage II flight lessons, corrected list of affected pages, minor grammar corrections.

### NOTE

Enter the revision number, date the revision is to be effective, and a brief summary of revision contents. The manual holder is responsible for maintaining current revisions.

**LIST OF AFFECTED PAGES**

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# **COMMERCIAL PILOT - 141.55 (E)**

## **PART I**

# **FACILITIES MANUAL**

The Facilities Manual is Part 1 of the Training Course Outline and meets the requirements of 14 CFR Part 141.55 (c), subsections 1-5.



## **PART I**

# **FACILITIES MANUAL**

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## **Bridgewater State University Facility**

The Bridgewater State University campus located in Bridgewater, Massachusetts, serves as the primary business address and administrative office for this course.

### **Satellite Location**

The Bridgewater State University campus located in Bridgewater, Massachusetts, serves as the satellite location for conduct of the ground training portion of this course.

### **Academics**

The academics facilities are located on the campus of Bridgewater State University, Harrington Hall, 95 Grove Street, Bridgewater, Massachusetts. Bridgewater State University may elect to conduct the academic ground courses for students at its' flight training facility, located at New Bedford Regional Airport, New Bedford, Massachusetts.

### **Distance Learning**

Bridgewater State University may deliver ground training in accordance with 14 CFR 141.53(d) utilizing internet-based tools described below.

- All courses are delivered using the Blackboard learning management system that requires a unique login to ensure identification/authorization, confidentiality, and access control. Blackboard allows out-of-class communications, attendance tracking, in-class discussion, participation, questions and answers, assignment feedback, and assessment feedback.
- Access to Blackboard is available through (4) different internet browsers.
- Blackboard monitors attendance for record-keeping compliance. Participants will be noted in their paper records to differentiate participants in the distance learning platform.
- A secure internet proctoring resource (Respondus Lockdown Browser) ensures integrity of stage exams, end-of-course and final exams.
- The Principle Operations Inspector (POI) receives a Blackboard account to allow for remote access to each course in accordance with 14 CFR 141.53(d)(2).

### **Classrooms**

Academic classes will typically be conducted in Harrington Hall in two (2) classrooms located on the ground floor of the building. Classroom 001 measures 24' by 20' and accommodates 24 students. Classroom 002 measures 35' by 20' and accommodates 30 students. Both classrooms contain computerized projection equipment and dry erase boards. Other rooms may be available and assigned by the University as necessary. All classrooms and administrative areas comply with current local building, health and sanitation codes, are enclosed, easily accessible, and provide a clean instructional environment free from outside distractions.

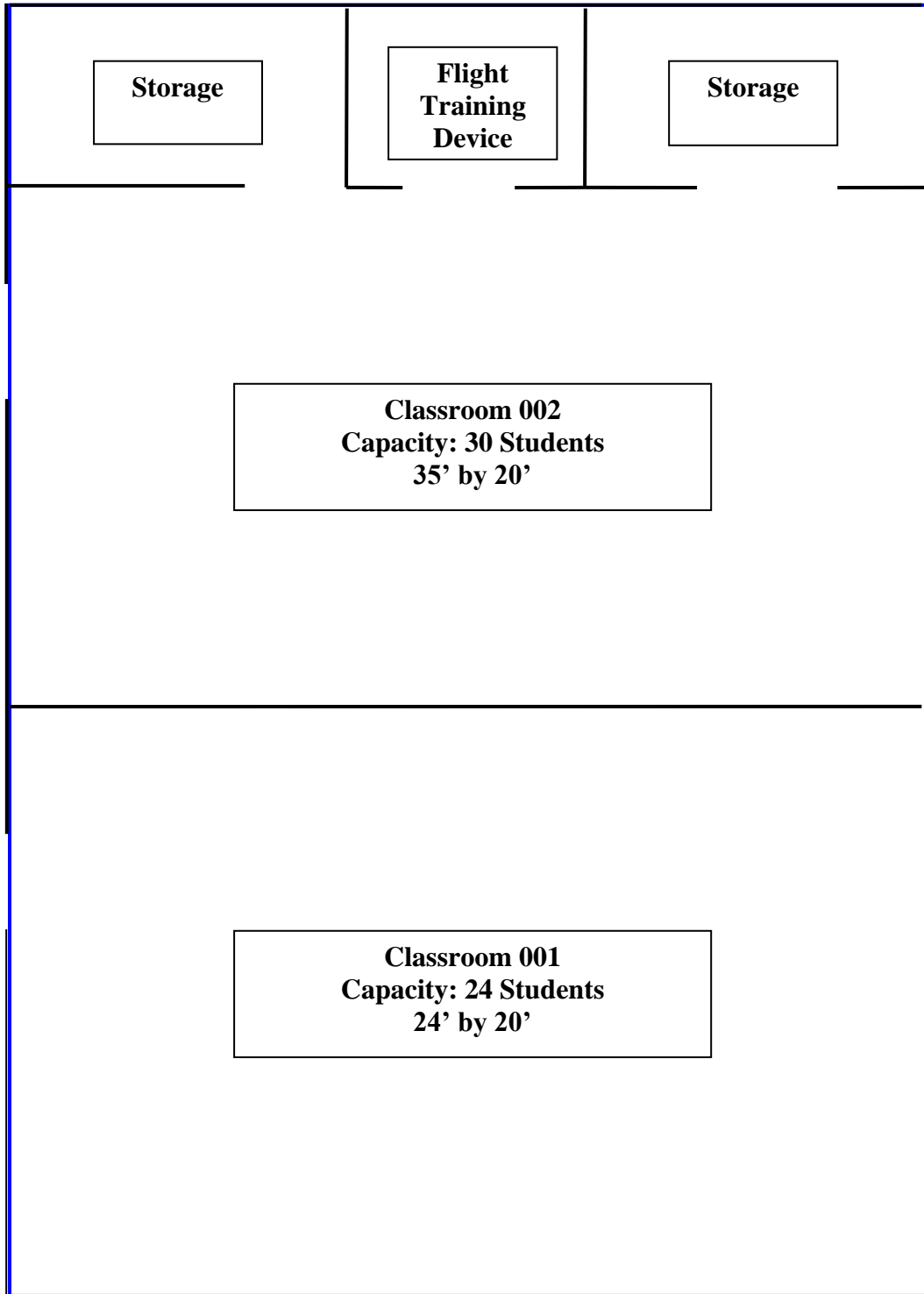
### **Ground Training Aids**

- ⊕ Overhead projector with Audio/Visual capability
- ⊕ Computer terminal including internet access
- ⊕ Video projector with DVD capability
- ⊕ Ceiling-mounted video projector unit
- ⊕ Wall-mounted dry-erase board





## **Bridgewater State University Classroom Diagram**



## **New Bedford (KEWB) Flight Training Center**

Bridgewater State University's Flight Training Center, located at the New Bedford Regional Airport at 1852 Shawmut Avenue, North Dartmouth, MA 02747, is the central location for all flight training activity.

### **Aircraft**

Bridgewater State University's flight training program may utilize two (2) aircraft for this course of training:

The Piper PA-28R Arrow is a four-place, single-engine, complex aircraft with dual flight controls. The aircraft is rated in the Normal category and certified for Day/Night VFR/IFR Operations. The aircraft meets the requirements of 14 CFR Part 141.39 and 141.75.

The Cessna 172 is a four-place, single-engine, non-complex aircraft with dual flight controls. The aircraft is rated in the Normal and Utility categories and is certified for Day/Night VFR/IFR Operations. The aircraft meets the requirements of 14 CFR Part 141.39 and 141.75. Multiple Cessna 172 aircraft qualify as Technically Advanced Airplanes per the requirements of 14 CFR Part 61.1 and 61.129(j).

Special equipment required for the course includes a VOR receiver, LOC and GS receivers, Transponder with Mode C, and GPS.

### **AATDs**

Bridgewater State University's flight training program may utilize three (3) advanced aviation training devices for this course of training:

- 1) Redbird Model LD, SD, FMX.

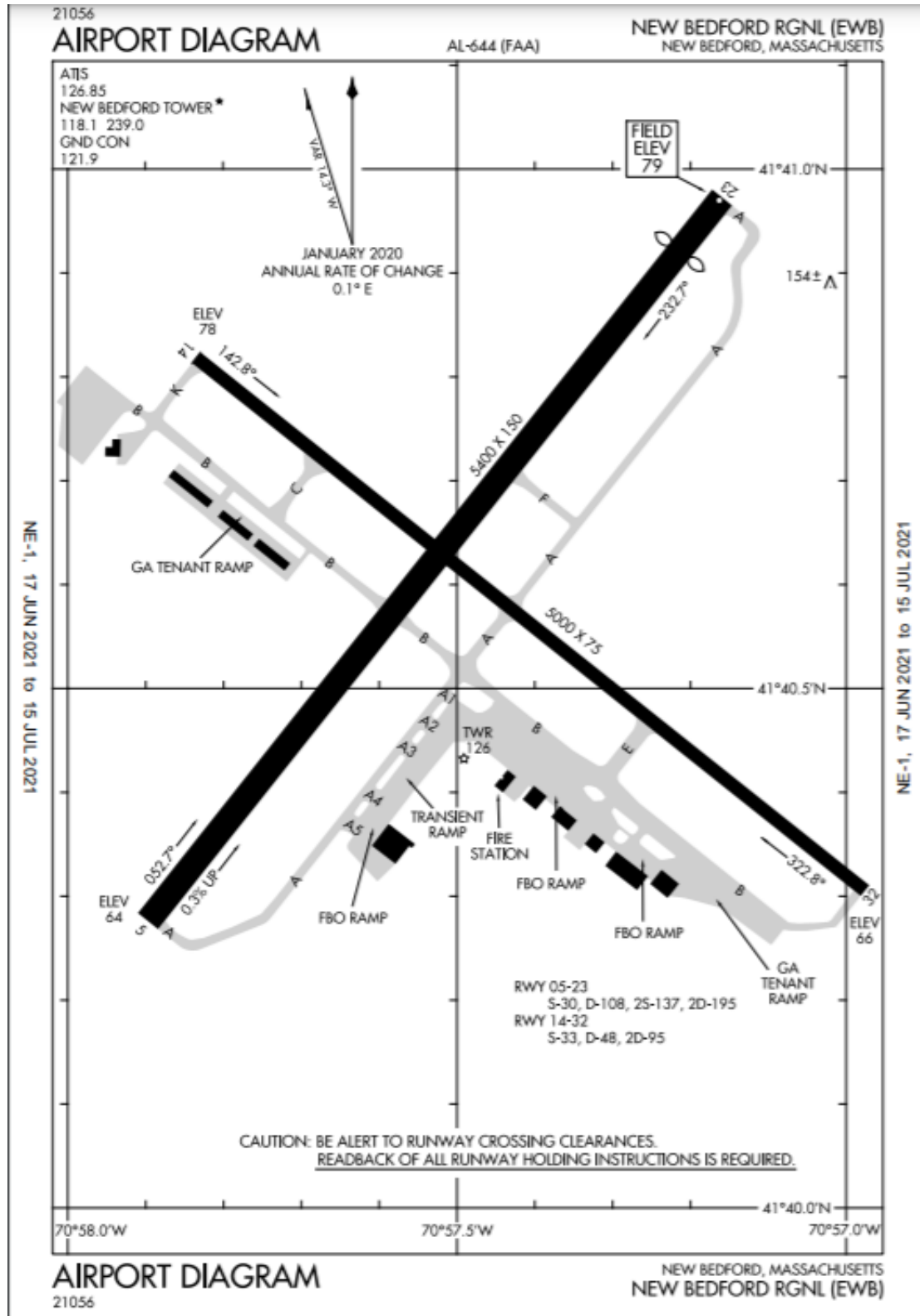
## **New Bedford Regional Airport**

The New Bedford Regional Airport (KEWB) is the main flight training center for the Bridgewater State University aviation program. KEWB contains two (2) hard-surfaced runways and meets the requirements of 14 CFR Part 141.38 for both day and night flight operations. KEWB has an operational control tower that is staffed from 0700 – 2200 local time. The airport has operable ILS, LOC, LOC/BC, and GPS approaches. Maintenance service is available from 0700 – 1700 and on call during evening and night flight operations. Fuel service is available 0700 – 2000 daily, on call at other times.

### **Training Airports**

All airports used for training operations meet the requirements of 14 CFR Part 141.38. Guidance for use of these airports is provided for flight instructors and students in the Bridgewater State University Aviation Operations Manual. The Chief Flight Instructor or his designee may approve the use of any public-use airport listed in the current Chart Supplement.

# New Bedford Regional (KEWB) Airport Diagram



## **Flight Briefing Area**

The main flight briefing area is centrally located within the operations building and measures 22' by 33'. It is equipped with briefing tables, chairs, cubicles (equipped with dry erase boards), a computer-based weather information station that provides textual and graphic weather reports and forecasts, and a landline phone connecting to a FSS Briefer. The room can accommodate up to 40 persons. There is a partition between the briefing area and the pilot lounge area (described below) that when removed allows for a 44' by 33' space that can be used for large meetings.

## **Classroom Area**

The classroom area is located at the southeast corner of the facility, and is accessible from either the main facility entrance or from the rear of the classroom on the rearward side of the building. The classroom measures 23' by 34' and accommodates up to 50 persons. The room is equipped with tables, chairs, and dry erase boards.

## **AATD Room**

One room measuring 32' by 22' houses three AATD units and a crosswind trainer.

## **Administrative Offices**

The facility contains multiple administrative offices. Measuring 9' by 11', 9' by 14', 12' by 18', 14' by 24' or 18' by 24', each can accommodate (5) to (10) persons, respectively.

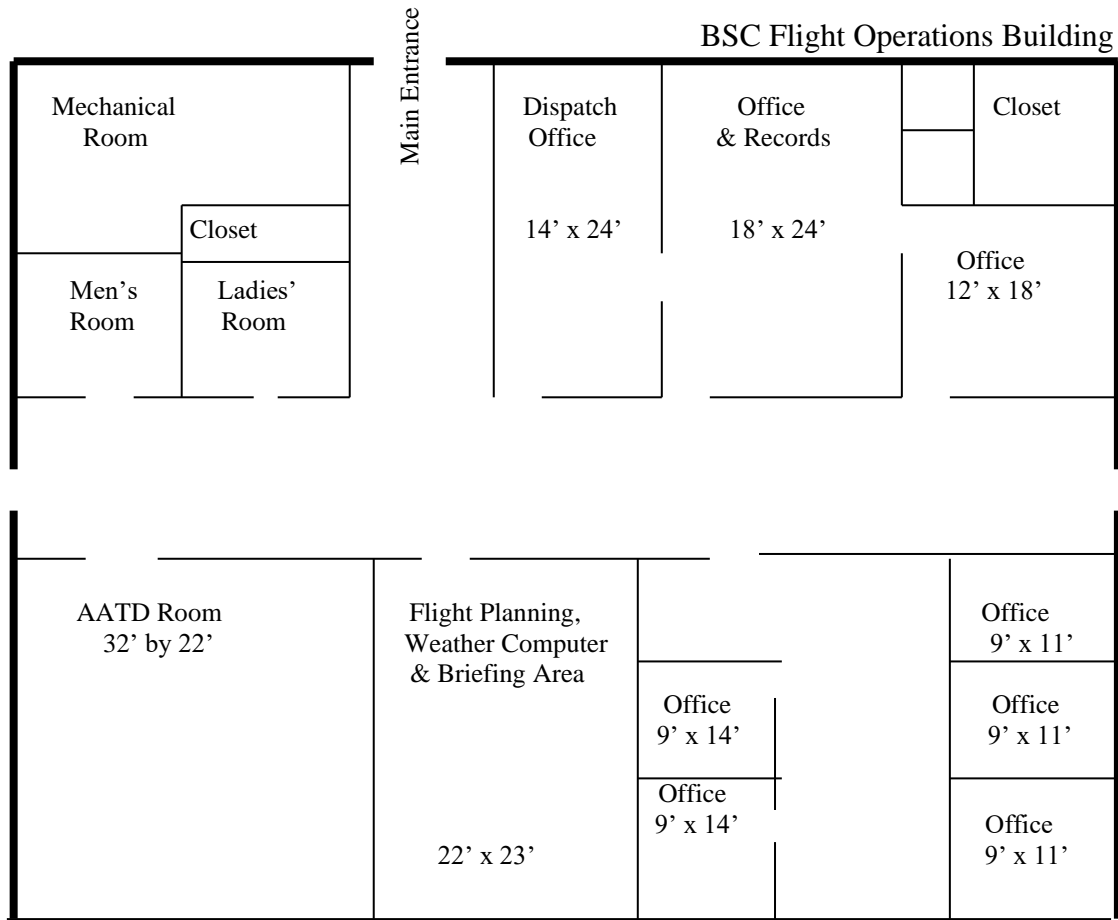
## **Ground Training Aids**

1. Overhead projector with audio/visual capability
2. Computer terminal including internet access
3. Video projector with DVD capability
4. Ceiling-mounted video projector unit
5. Wall-mounted dry-erase board
6. Aeronautical charts, publications, and aircraft components for training purposes only
7. Resource library

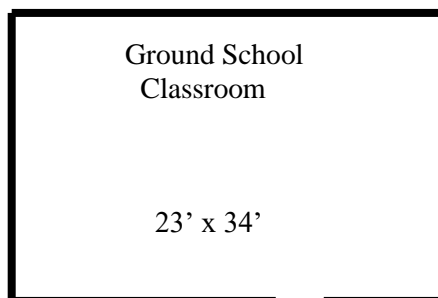
<b>NOTE</b>
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All classrooms and administrative areas comply with current local building, health and sanitation codes. All rooms are enclosed and easily accessible, and provide a clean instructional and operational environment free from outside distractions

# Flight Training Center Diagram



Not to Scale



**PART II**

**COURSE MANUAL**

**COMMERCIAL PILOT  
CERTIFICATION COURSE  
141.55(e)**

# COMMERCIAL TRAINING COURSE SYLLABUS

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## PERSONNEL

### CHIEF FLIGHT INSTRUCTOR

The Chief Flight Instructor for this course is Timothy Townsend. The Chief Flight Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter.

### CHIEF GROUND INSTRUCTOR

The Chief Ground Instructor for this course is Timothy Townsend. The Chief Ground Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter.

### ASSISTANT CHIEF FLIGHT INSTRUCTOR

The Assistant Chief Flight Instructor for this course is Loren Herren. The Assistant Chief Flight Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter.

### ASSISTANT CHIEF GROUND INSTRUCTOR

The Assistant Chief Ground Instructor for this course is Loren Herren. The Assistant Chief Ground Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter.

### GROUND INSTRUCTORS

Each Ground Instructor assigned to this course must possess a valid Ground Instructor Certificate or a valid Flight Instructor Certificate with an Airplane rating. Other individuals may give instruction in this course if the Chief Flight Instructor (or if the Chief Flight Instructor is unavailable, the Assistant Chief Ground Instructors) finds that individual qualified to provide instruction. The instruction will be provided under the direct supervision of the Chief or Assistant Chief Instructor who is present at the facility when such instruction is given.

### FLIGHT INSTRUCTORS

Each Flight Instructor assigned to this course must possess a valid Flight Instructor-Airplane certificate. Instructors who provide instrument training in the course must possess a Flight Instructor-Instrument certificate. Each CFI approved for training in this course will meet the requirements of 141.79 and be designated in the Part 141 Operations Specifications.



## STUDENT INFORMATION

### COURSE ENROLLMENT

Eligibility for enrollment in the ground portion of this course requires the student to be enrolled as a student at Bridgewater State University, be at least 18 years of age, and possess an FAA Private Pilot Certificate. Enrollment in the flight portion of this course requires the student to be enrolled as a student at Bridgewater State University, be at least 18 years of age, and possess an FAA Private Pilot Certificate with an Instrument Rating.

### COMPLETION STANDARD FOR GRADUATION

To graduate from this course the student must be able to read, speak, write, and understand the English language, and satisfactorily complete the ground and flight training outlined in this syllabus. Through oral and written exams and flight tests, the student must demonstrate the required aeronautical knowledge, flight proficiency, and risk management capability at a level that meets or exceeds requirements specified in the current FAA Commercial Pilot Knowledge Test and Airman Certification Standards.

### LESSON DESCRIPTION AND STAGES OF TRAINING

The BSU Commercial Pilot Course (ground) contains two (2) stages and a total of 16 lessons. The flight portion of the course contains two (2) stages and 22 total lessons. All lessons and tasks (including stage checks) are listed within the syllabus and include objectives, tasks, and completion standards.

### TESTS AND STAGE CHECKS

The syllabus incorporates stage checks and end-of-course tests in accordance with 14 CFR Part 141.55 (D) and (E). The Chief Instructor is responsible for ensuring that each student accomplishes the required stage checks and end-of-course tests in accordance with Bridgewater State University's approved training course. The Chief Instructor may delegate authority for stage checks and end-of-course tests to the Assistant Chief or Check Instructor.

## COURSE INTRODUCTION

The Bridgewater State University Commercial 141.55 (E) course coordinates academic study assignments and flight training designed for pilots learning to operate in a complex aviation environment. New subject matter is introduced and reviewed during ground lessons in multimedia formats, including but not limited to current editions of the following:

1. FAA Commercial Pilot Airman Certification Standards (ACS)
2. FAA Aviation Instructor's Handbook FAA-H-8083-9
3. FAR/AIM
4. FAA Pilot's Handbook of Aeronautical Knowledge FAA-H-8083-25
5. FAA Airplane Flying Handbook FAA-H-8083-3
6. FAA Instrument Flying Handbook FAA-H-8083-15
7. FAA Risk Management Handbook FAA-H-8083-2
8. FAA AC 00-45 Aviation Weather
9. FAA AC 00-6 Aviation Weather Services
10. NACO Instrument Approach Procedure Charts (IAPs)
11. NACO IFR Low En Route Charts
12. NACO Departure Procedures (DPs)
13. NACO Standard Terminal Arrivals (STARs)
14. FAA Chart Supplement (Former Airport/Facility Directory)
15. Bridgewater State University Aviation Emergency Response Plan (ERP)
16. Bridgewater State University Aviation Hazardous Information Tracking (HIT) form
17. Cessna 172R Skyhawk and Piper PA-28R Arrow Pilot's Information Manual (PIM)
18. Cessna 172R Skyhawk and Piper PA-28R Arrow BSU Flight Standards Manual (FSM)
19. Multi-media presentations
20. Instructor/student discussions
21. Stage and end-of-course exams

Whenever possible and practical, ground lessons are completed in ground school just prior to the respective flight lessons outlined in the syllabus. BSU may elect to present all of the ground lessons before the student is introduced to the airplane. Instructors are expected to ensure the student has retained and can apply previously learned material. Prior to each flight, students are expected to demonstrate the associated knowledge and risk management capability required in the lesson completion standards.

In accordance with established FAA educational best practices, this syllabus utilizes the building-block theory of learning, where each item taught must be presented on the basis of previously learned knowledge and skills.

### COURSE ELEMENTS

The Bridgewater State University Commercial 141.55 (E) course is designed to be conducted as a combined ground and flight training program, but may be divided into separate components. This course includes the most current FAA pilot certification requirements.

## **GROUND TRAINING**

In accordance with 14 CFR FAR Part 141, ground school training is an integral part of pilot certification courses. The Bridgewater State University ground training syllabus has been designed to meet this requirement in both letter and spirit. This course coordinates the sequence of ground and flight events to maximize effectiveness of the academic knowledge and its application during flight events.

Lessons shall be conducted in the numerical order as listed in the ground and flight training segments of the syllabus. Flexibility for adapting to individual student needs and training situations is occasionally required, but the syllabus lesson sequence may be altered only with the prior approval of the Chief or Assistant Chief Ground Instructor. Any deviation should not disturb the course continuity or objective. Each lesson may be presented in one session or divided into multiple sessions, as necessary.

## **USING THE GROUND LESSONS**

The Bridgewater State University Commercial Pilot Course Ground lessons are best utilized by using all of the individual elements together in an organized approach as described in the syllabus. The syllabus contains cross-references which direct the user to the appropriate study materials for each lesson. Instructors are reminded to review the study assignment for the next lesson with their students.

## **STAGE CHECKS**

Stage exams evaluate the student's understanding of the knowledge areas within a stage of training. Students must successfully complete each stage exam before progressing to the next stage. The Chief Instructor is responsible for the conduct of each stage check, and may designate authority for conducting the stage check to an Assistant Chief or Check Instructor, as necessary. This procedure provides close supervision of training, provides another opinion on the student's progress, and gives the Chief Instructor an opportunity to evaluate training effectiveness. Minimum passing score for any written stage or final exam for the purpose of earning Part 141 credit toward the Commercial Pilot certificate is 80%.

## **TEXTBOOKS/MULTI-MEDIA PRESENTATIONS**

Prior to each ground lesson, students are expected to study the assigned textbook(s) sections or chapters. The texts are the primary source for initial study and review and contain concise explanations of the fundamental concepts and ideas and are organized in a logical building-block sequence. Study of the assigned materials prior to the scheduled lesson will improve student preparation and reduce overall training time.

# **COMMERCIAL PILOT GROUND COURSE**

## **COURSE OVERVIEW**

### **COURSE OBJECTIVE**

The student will obtain the knowledge, skill, and aeronautical experience necessary to meet the requirements for a Commercial Pilot certificate with an Airplane category and single-engine land class rating.

### **COURSE COMPLETION STANDARDS**

The student must demonstrate through knowledge tests, flight tests, and show through appropriate records that he/she meets the knowledge, risk management and skill requirements necessary to obtain a Commercial Pilot certificate with an airplane category and single-engine land class rating.

### **TRAINING SYLLABUS**

The Bridgewater State University Commercial 141.55 (E) syllabus meets all curriculum requirements of 14 CFR 141, Appendix D.

### **TRAINING COURSE**

The Ground Training course contains two (2) stages and a total of 15 lessons.

# **COMMERCIAL PILOT GROUND COURSE SYLLABUS**

## **GROUND TRAINING COURSE OBJECTIVES**

The student will obtain and demonstrate knowledge and aeronautical decision-making at a level that meets or exceeds FAA Commercial Pilot Airman Certification Standard and which is required to pass the FAA Commercial Pilot Airman Knowledge test.

## **LESSON GRADING AND COMPLETION STANDARD**

Each ground lesson is graded across three (3) elements; Knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), Risk Management (defined by the applicant's ability to identify, assess and mitigate risks associated with the task) and Skill (defined by the applicant's ability to apply the skill necessary to achieve the listed objective).

## **GROUND TRAINING COMPLETION STANDARDS**

The student must demonstrate through written, oral and practical examination that s/he has obtained the knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), risk management ability (defined by the applicant's ability to identify, assess and mitigate risks associated with the task) and skill (defined by the applicant's demonstrated ability to apply the skill necessary to achieve the listed objective) at a level that meets or exceeds FAA Commercial Pilot Airman Certification Standards and which is required to pass the FAA Commercial Pilot Airmen Knowledge test.

**COMMERCIAL PILOT GROUND COURSE  
TIME ALLOCATION TABLE**

**STAGE I**

LESSON	SUBJECT	HOURS	
		Training	Exam
I	Pilot Qualifications	2.0	
II	Airworthiness Requirements	1.0	
III	National Airspace System	1.0	
IV	Weather Information	3.0	
V	Cross-Country Flight Planning	2.0	
VI	Human Factors and Night Operations	2.0	
VII	Federal Aviation Regulations	2.0	
VIII	Stage I Exam		2.0
Stage I Totals		13.0	2.0

**STAGE II**

LESSON	SUBJECT	HOURS	
		Training	Exam
IX	Aircraft Systems	6.0	
X	Advanced Aerodynamics	2.0	
XI	Performance	2.0	
XII	Weight and Balance	1.0	
XIII	Maneuvers and Procedures	2.0	
XIV	Instrument Procedures	1.0	
XV	Stage II Exam		2.0
XVI	Final Exam		2.0
Stage II Totals		14.0	4.0
Course Totals		27.0	6.0

## **STAGE I**

### **STAGE I OBJECTIVES**

During this stage the student will obtain and demonstrate knowledge and risk management ability associated with commercial pilot qualifications, human factors and decision-making, principles of flight including the use, capabilities and limitations of flight instruments and navigation systems, use of publications for flight planning and execution, and the air traffic control system and regulatory requirements related to commercial operations.

### **STAGE I COMPLETION STANDARDS**

The stage is complete when the student completes the Stage I written exam with a minimum passing score of 80%.

**STAGE I**  
**GROUND LESSON 1**  
**PILOT QUALIFICATIONS**

**LESSON REFERENCES**

14 CFR Parts 61, 67, 91, Pilot's Handbook of Aeronautical Knowledge, Risk Management Handbook, Aviation Instructor's Handbook Chapters 1 – 3, BSU Aviation Hazardous Incident Tracking (HIT) form, BSU Aviation Emergency Response Plan (ERP)

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge, risk management and proficiency associated with operating as pilot in command (PIC) as a commercial pilot.

**CONTENT**

- \_\_\_ Pilot Qualifications
- \_\_\_ Aeronautical Decision Making
- \_\_\_ Risk Assessment and Management
- \_\_\_ Pilot Fitness for Flight
- \_\_\_ Single Pilot Resource Management
- \_\_\_ BSU Aviation Hazardous Incident Tracking (HIT) Form Applications
- \_\_\_ BSU Emergency Response Plan

**COMPLETION STANDARDS**

Through in-class oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with operating as pilot in command (PIC) as a commercial pilot.

**STUDY ASSIGNMENT**

14 CFR Part 23, 14 CFR 91.213, AC 91-67, Cessna 172 Information Manual, BSU C-172R FSM, Pilot's Handbook of Aeronautical Knowledge, Ch. 3



**STAGE I**  
**GROUND LESSON 2**  
**AIRWORTHINESS REQUIREMENTS**

**LESSON REFERENCES**

14 CFR Part 23, 14 CFR 91.213, AC 91-67,  
Cessna 172 Information Manual, BSU C-  
172R FSM, Pilot's Handbook of  
Aeronautical Knowledge, Ch. 3

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with airworthiness  
requirements, including aircraft  
certificates and records.

**CONTENT**

- \_\_\_ 14 CFR Part 23, Normal, Utility,  
Aerobatic and Commuter Category  
Aircraft
- \_\_\_ Aircraft Preflight Inspection
- \_\_\_ Certificate Type, Location,  
Expiration Date
- \_\_\_ Airworthiness Directives
- \_\_\_ 14 CFR 91.409 Required  
Inspections and Documentation

- \_\_\_ 14 CFR 91.213 Inoperative  
Instrument and Equipment
- \_\_\_ 14 CFR Part 43 Maintenance,  
Preventive Maintenance,  
Rebuilding, and Alteration
- \_\_\_ Minimum Equipment List (MEL),  
Kinds of Operation Equipment List  
(KOEL)
- \_\_\_ Aircraft Maintenance Logbooks
- \_\_\_ Pilot-performed Preventive  
Maintenance
- \_\_\_ Special Flight Permit
- \_\_\_ Aircraft Security Concerns

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit satisfactory  
knowledge, risk management, and skills  
associated with airworthiness requirements,  
including aircraft certificates and records.

**STUDY ASSIGNMENT**

Pilot's Handbook of Aeronautical  
Knowledge, 14 CFR Parts 71, 91, 93, Risk  
Management Handbook, Navigation Charts,  
AIM

**STAGE I**  
**GROUND LESSON 3**  
**NATIONAL AIRSPACE SYSTEM**

**LESSON REFERENCES**

Pilot's Handbook of Aeronautical Knowledge, 14 CFR Parts 71, 91, 93, Risk Management Handbook, Navigation Charts, AIM

**LESSON SEQUENCE**

1. Lesson Introduction
2. Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge, risk management and proficiency associated with the National Airspace System (NAS), operating under VFR as a commercial pilot, airports and sources of flight planning information.

**CONTENT**

**Airports**

- \_\_\_ Rwy and Txwy Mrkgs and Lighting
- \_\_\_ Lighting Systems
- \_\_\_ Runway Incursion Avoidance
- \_\_\_ Collision Avoidance
- \_\_\_ Situational Awareness

**National Airspace System**

- \_\_\_ Airspace, Airspace Classes, Associated Requirements and Limitations
- \_\_\_ Charting Symbolology
- \_\_\_ Special Use Airspace, (SUA), Special Flight Rules Areas, Temporary Flight Restrictions (TFR), and Other Airspace Areas
- \_\_\_ Emergency Air Traffic Rules

**Sources of Flight Information**

- \_\_\_ Chart Supplement
- \_\_\_ Federal Aviation Regulations
- \_\_\_ Aeronautical Information Manual
- \_\_\_ Notices to Airmen (NOTAMS)
- \_\_\_ Advisory Circulars

**COMPLETION STANDARDS**

Through in-class oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with airports, airspace and flight information.

**STUDY ASSIGNMENT**

14 CFR Part 91, PHAK, AC-00-6, AC-00-45, AC-00-54, AIM

**STAGE I**  
**GROUND LESSON 4**  
**WEATHER INFORMATION**

**LESSON REFERENCES**

14 CFR Part 91, PHAK, AC-00-6, AC-00-45, AC-00-54, AIM

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge, risk management and proficiency associated with obtaining, interpreting, and applying weather information for flight under VFR.

**CONTENT**

**Weather and Weather Hazards**

- \_\_\_ Atmospheric Composition and Stability
- \_\_\_ Temperature, Moisture, Precipitation
- \_\_\_ Clouds
- \_\_\_ Weather System Formation, Air Masses and Fronts
- \_\_\_ Thunderstorms and Microbursts
- \_\_\_ Wind Shear / Avoidance Procedures
- \_\_\_ Turbulence
- \_\_\_ Icing and Freezing Level Information
- \_\_\_ Hydroplaning

**Weather Reports and Forecasts**

- \_\_\_ METAR
- \_\_\_ AWOS, ASOS, ATIS
- \_\_\_ PIREPS
- \_\_\_ Terminal Aerodrome Forecast (TAF)
- \_\_\_ Graphic Forecast for Aviation (GFA)
- \_\_\_ Winds and Temps Aloft Forecast (FD)
- \_\_\_ Severe Weather Reports and Forecasts
- \_\_\_ WA/WS/WST
- \_\_\_ Surface Analysis Chart
- \_\_\_ Weather Depiction Chart
- \_\_\_ Satellite Weather

- \_\_\_ Low-Level Significant Weather Prog
- \_\_\_ Convective Outlook Chart
- \_\_\_ Volcanic Ash Forecast and Dispersion Chart

**Weather Information**

- \_\_\_ Preflight and In-Flight Weather Sources
- \_\_\_ Weather Radar Services
- \_\_\_ Automated Weather Reporting Systems
- \_\_\_ Personal Weather Minimums

**COMPLETION STANDARDS**

Through in-class oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with weather and sources of weather information.

**STUDY ASSIGNMENT**

14 CFR Part 91, Risk Management Handbook, Navigation Charts, Chart Supplement, AIM, NOTAMs, Pilot's Handbook of Aeronautical Knowledge, C172R FSM

**STAGE I**  
**GROUND LESSON 5**  
**CROSS-COUNTRY FLIGHT PLANNING**

**LESSON REFERENCES**

14 CFR Part 91, Risk Management Handbook, Navigation Charts, Chart Supplement, AIM, NOTAMs, Pilot's Handbook of Aeronautical Knowledge, C172R FSM

**RECOMMENDED SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge, risk management and proficiency associated with cross-country flights, flight planning and risk analysis.

**CONTENT**

- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Route Planning, Including Airspace, Altitude, Navigation Aid Availability, Fuel,
- \_\_\_ Pilot, Aircraft, Environmental, External Pressures
- \_\_\_ Complete a Flight Planning Scenario Including Flight Log, and Risk Analysis

**COMPLETION STANDARDS**

Through in-class oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with cross-country flights, flight planning and risk analysis.

**STUDY ASSIGNMENT**

14 CFR Part 91, Risk Management Handbook, AIM, Pilot's Handbook of Aeronautical Knowledge, Airplane Flying Handbook, C172R FSM

**STAGE I**  
**GROUND LESSON 6**  
**HUMAN FACTORS AND NIGHT OPERATIONS**

**LESSON REFERENCES**

14 CFR Part 67, Part 91, Risk  
Management Handbook, AIM, Pilot's  
Handbook of Aeronautical Knowledge,  
Airplane Flying Handbook, C172R FSM

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with personal health, flight  
physiology, aeromedical and human  
factors related to flight.

**CONTENT**

**Aviation Physiology**

- \_\_\_ 14 CFR Part 67 Medical Standards  
and Certification
- \_\_\_ Hazardous Attitudes
- \_\_\_ Optical Illusions
- \_\_\_ Stress and Fatigue
- \_\_\_ Dehydration and Nutrition
- \_\_\_ Hypothermia
- \_\_\_ Spatial Disorientation and Motion  
Sickness
- \_\_\_ Carbon Monoxide Poisoning
- \_\_\_ Hypoxia and Hyperventilation
- \_\_\_ Nitrogen/Decompression Sickness
- \_\_\_ Alcohol & Drugs; FARs and  
Performance
- \_\_\_ High Altitude Operations

**Night Operations**

- \_\_\_ Night Equipment
- \_\_\_ Night Ground and Flight Operations

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit  
satisfactory knowledge, risk  
management, and skills associated with  
personal health, flight physiology,  
aeromedical and human factors related  
to flight.

**STUDY ASSIGNMENT**

14 CFR Parts 1, 23, 61, 91, 119, 125,  
121, 135, NTSB 830, AIM

**STAGE I**  
**GROUND LESSON 7**  
**FEDERAL AVIATION REGULATIONS**

**LESSON REFERENCES**

14 CFR Parts 23, 61, 91, 119, 125, 121,  
135, NTSB 830, AIM

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE:**

Students will increase their knowledge,  
risk management and proficiency  
associated with Federal Aviation  
Regulations and NTSB 830 related to  
commercial pilot operations.

**CONTENT**

- \_\_\_ 14 CFR Part 1 Definitions and Abbreviations
- \_\_\_ 14 CFR Part 23 Related to Aircraft Performance Requirements
- \_\_\_ 14 CFR Part 61 Related to Additional Pilot Privileges and Ratings
- \_\_\_ 14 CFR Part 91
- \_\_\_ 14 CFR Part 119 Air Carriers and Commercial Operators
- \_\_\_ 14 CFR Part 121 Air Carrier Certification Process
- \_\_\_ 14 CFR Part 135 Commuter and On-Demand Operations
- \_\_\_ NTSB 830
- \_\_\_ AIM

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit satisfactory  
knowledge, risk management, and skills  
associated with applicable parts of 14 CFR,  
NTSB 830, and AIM

**STUDY ASSIGNMENT**

As necessary in preparation for the Stage I  
Exam.

**STAGE I  
GROUND LESSON 8  
STAGE I EXAM**

**LESSON REFERENCES**

All texts and references utilized during lessons 1 – 7.

**LESSON SEQUENCE**

1. Testing
2. Critique

**LESSON OBJECTIVE**

Students will demonstrate the knowledge, risk management and proficiency associated with lesson content presented during lessons 1 – 7.

**CONTENT**

- \_\_\_ Pilot Qualifications
- \_\_\_ Airworthiness Requirements
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Human Factors and Night Operations
- \_\_\_ Federal Aviation Regulations

**COMPLETION STANDARDS**

This lesson and stage are complete, and the student eligible to progress to the next stage of the course, when the student has completed the Stage I Exam with a minimum score of 80%.

**STUDY ASSIGNMENT**

Pilot's Handbook of Aeronautical Knowledge, Ch. 6, Airplane Flying Handbook, Ch. 11.

## **STAGE II**

### **STAGE II OBJECTIVES**

During this stage the student will increase knowledge of high performance and high altitude, aerodynamics, aircraft performance, weight and balance, complex aircraft systems, Commercial pilot-level maneuvers and procedures, and review instrument procedures.

### **STAGE II COMPLETION STANDARDS**

This stage is complete and the student eligible to take the Course Final Exam when the student has completed the Stage II written exam with a minimum passing score of 80%.



**STAGE II**  
**GROUND LESSON 9**  
**AIRCRAFT SYSTEMS**

**LESSON REFERENCES**

Risk Management Handbook, Airplane  
Flying Handbook, PHAK, C172R  
Information Manual, Garmin G3X  
Touch, GFC 500 and G5 Operating  
Manuals

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with aircraft systems and high  
altitude operational effects related to  
commercial pilot operations.

**CONTENT**

- \_\_\_ Powerplant, Including Injected v.  
Carbureted Systems, Turbo/Super-  
Charging, and High Altitude  
Performance
- \_\_\_ Propeller, Including Constant-  
Speed Propeller Design and  
Operation
- \_\_\_ Fuel System, Including Fuel  
Management
- \_\_\_ Oil and Hydraulic Systems
- \_\_\_ EGT and CHT Gauges and Use
- \_\_\_ Electrical
- \_\_\_ Avionics (Conventional and Glass
- \_\_\_ Cockpit PFD/MFD power-up &  
preflight check

- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes  
(departure & en route)
- \_\_\_ PFD/MFD failure, reversion modes,  
use of standby instruments
- \_\_\_ Autopilot failure
- \_\_\_ Turns, Climbs, Descents & Altitude  
Capture using AP
- \_\_\_ Course Intercepting & Trkg
- \_\_\_ Holding (manual & AP-coupled)
- \_\_\_ Instrument approach (manual)
- \_\_\_ Instrument approach (AP-coupled)
- \_\_\_ Missed approach (manual)
- \_\_\_ Missed approach (AP-coupled)
- \_\_\_ Pitot-Static, Vacuum, and Associated  
Instruments
- \_\_\_ Landing Gear, Including Fixed  
and Retractable, Warning Systems
- \_\_\_ Environmental, Including Oxygen  
Systems, Storage and Servicing,  
Cabin Pressurization, Warning  
Systems and Emergencies
- \_\_\_ Anti-Ice and De-Ice Systems,  
Including Engine, Propeller,  
Windshield, Airfoils(s)

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit  
satisfactory knowledge, risk  
management, and skills associated  
with single-engine aircraft systems.

**STUDY ASSIGNMENT**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook

**STAGE II**  
**GROUND LESSON 10**  
**ADVANCED AERODYNAMICS**

**LESSON REFERENCES**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with advanced aerodynamics  
and their application in commercial  
flight operations.

**CONTENT**

- \_\_\_ High Altitude /High Speed  
Aerodynamics
- \_\_\_ Pilot Control of Lift
- \_\_\_ Leading & Trailing Edge Devices  
for Creating Lift and Drag
- \_\_\_ Weight and Load Factor
- \_\_\_  $V_G$  Diagram

**Stability**

- \_\_\_ Static
- \_\_\_ Dynamic
- \_\_\_ Lateral
- \_\_\_ Longitudinal
- \_\_\_ Directional

**Aerodynamics and Flight Maneuvers**

- \_\_\_ Climbs
- \_\_\_ Glides
- \_\_\_ Stall and Spin Awareness

\_\_\_ Spin Recovery

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit  
satisfactory knowledge, risk  
management, and skills associated with  
aerodynamics, stability and applications  
in various flight maneuvers.

**STUDY ASSIGNMENT**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook,  
BSU FSM(s) Appropriate Pilot  
Information Manual(s)

**STAGE II**  
**GROUND LESSON 11**  
**PERFORMANCE**

**LESSON REFERENCES**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook,  
BSU FSM(s) Appropriate Pilot  
Information Manual(s)

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with airplane performance  
capability and limitations pertinent to  
commercial flight operations.

**CONTENT**

**Factors Affecting Performance**

- \_\_\_ Weight and Loading
- \_\_\_ Environmental Conditions
- \_\_\_ Runway Conditions

**Calculating Performance**

- \_\_\_ Performance Charts
- \_\_\_ Takeoff and Landing Distance
- \_\_\_ Accelerate – Stop Distance
- \_\_\_ Climb and Cruise Performance
- \_\_\_ Descent Planning Charts
- \_\_\_ Hydroplaning
- \_\_\_ Glide Distance

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit  
satisfactory knowledge, risk  
management, and skills associated with  
single-engine aircraft performance.

**STUDY ASSIGNMENT**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook,  
BSU FSM(s) Appropriate Pilot  
Information Manual(s)

**STAGE II**

**GROUND LESSON 12**

**WEIGHT AND BALANCE**

**LESSON REFERENCES**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook,  
BSU FSM(s) Appropriate Pilot  
Information Manual(s)

\_\_\_ Graphical Method  
\_\_\_ Tabular Method  
\_\_\_ Weight Shift Calculations

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with weight and balance  
scenarios related to commercial flight  
operations.

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit  
satisfactory knowledge, risk  
management, and skills associated with  
aircraft weight and balance.

**CONTENT**

\_\_\_ Weight and Balance Limitations  
\_\_\_ CG Limitations  
\_\_\_ Effects of Exceeding Limitations  
\_\_\_ Weight and Balance Documents  
\_\_\_ Computations  
\_\_\_ Condition Checks  
\_\_\_ Computational Method

**STUDY ASSIGNMENT**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook,  
BSU FSM(s) Appropriate Pilot  
Information Manual(s), Commercial  
Pilot ACS

## **STAGE II**

### **GROUND LESSON 13**

#### **MANEUVERS AND PROCEDURES**

##### **LESSON REFERENCES**

Pilot's Handbook of Aeronautical  
Knowledge, Airplane Flying Handbook,  
BSU FSM(s) Appropriate Pilot  
Information Manual(s), Commercial  
Pilot ACS

##### **LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

##### **LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with commercial-level  
aircraft maneuvers and procedures.

##### **CONTENT**

###### **Airman Certification Standards**

- \_\_\_ Mastery of the Aircraft
- \_\_\_ Importance of Visual Scanning
- \_\_\_ Demonstration of Sound Judgment  
and Aeronautical Decision Making

###### **Normal Maneuvers and Procedures**

- \_\_\_ Short-Field Takeoff
- \_\_\_ Soft-Field Takeoff
- \_\_\_ Short-Field Approach and Landing
- \_\_\_ Soft-Field Approach and Landing
- \_\_\_ Power-Off Accuracy Approach and  
Landing
- \_\_\_ Eights-On-Pylons
- \_\_\_ Chandelles
- \_\_\_ Lazy Eights
- \_\_\_ Steep Turns

\_\_\_ Steep Spirals

##### **Emergency Procedures**

- \_\_\_ Emergency Equip. & Survival Gear
- \_\_\_ Emergency Approach and Landing
- \_\_\_ Impossible Turn
- \_\_\_ Emergency Descent
- \_\_\_ In-Flight Fire
- \_\_\_ Partial Power Loss
- \_\_\_ Comm/Nav Equipment Failure

##### **COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit  
satisfactory knowledge, risk  
management, and skills associated with  
commercial maneuvers and procedures.

##### **STUDY ASSIGNMENT**

Instrument Flying Handbook, Instrument  
Approach Charts, appropriate BSU  
FSM(s)

**STAGE II  
GROUND LESSON 14  
INSTRUMENT PROCEDURES**

**LESSON REFERENCES**

Instrument Flying Handbook, Instrument  
Approach Charts, appropriate BSU  
FSM(s)

**LESSON SEQUENCE**

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

**LESSON OBJECTIVE**

Students will increase their knowledge,  
risk management and proficiency  
associated with instrument approach  
procedures in complex aircraft and  
related to commercial flight operations.

**CONTENT**

- \_\_\_ Instrument Approach Charts
- \_\_\_ Instrument Approach Procedures
- \_\_\_ Executing Instrument Approaches in  
Complex SE Aircraft
- \_\_\_ Executing Instrument Approaches in  
TAA

**COMPLETION STANDARDS**

Through in-class oral and/or written  
quizzing students will exhibit satisfactory  
knowledge, risk management, and skills  
associated with commercial instrument  
procedures in single-engine aircraft.

**STUDY ASSIGNMENT**

Texts as necessary in preparation for the  
Stage II Exam.

**STAGE II  
GROUND LESSON 15  
STAGE II EXAM**

**LESSON REFERENCES**

All texts referenced in presenting lessons  
9 – 14.

**RECOMMENDED SEQUENCE**

1. Testing
2. Critique

**LESSON OBJECTIVE**

The student will demonstrate  
understanding of the concepts presented  
during lessons 9-14.

**CONTENT**

- \_\_\_ Aircraft Systems
- \_\_\_ Advanced Aerodynamics
- \_\_\_ Performance
- \_\_\_ Weight and Balance
- \_\_\_ Maneuvers and Procedures
- \_\_\_ Instrument Procedures

**COMPLETION STANDARDS**

This lesson and stage are complete, and the  
student eligible to progress to the course  
final exam, when the student has completed  
the Stage II Exam with a minimum score of  
80%.

**STUDY ASSIGNMENT**

As necessary in preparation for the  
Course Final Exam.

**STAGE II**  
**GROUND LESSON 16**  
**COURSE FINAL EXAM**

**LESSON REFERENCES**

All texts referenced in presenting lessons  
1 – 14.

**LESSON SEQUENCE**

1. Testing
2. Critique

**LESSON OBJECTIVE**

The student will demonstrate his/her  
understanding of the concepts presented  
during lessons 1 – 14.

**CONTENT**

\_\_\_ All material presented in lessons  
1 - 14.

**COMPLETION STANDARDS**

The course is complete, and the student  
eligible to progress to the FAA Commercial  
Pilot Airman Knowledge Test, when the stu-  
dent has completed the Course Final Exam  
with a minimum score of 80%.

**STUDY ASSIGNMENT**

As necessary in preparation for the FAA  
Commercial Pilot Knowledge Test.



# **COMMERCIAL PILOT FLIGHT TRAINING SYLLABUS**

## **COURSE OBJECTIVES**

Students will obtain the necessary aeronautical skill and experience necessary to meet the requirements for an FAA Commercial Pilot certificate with an Airplane category single land class rating.

## **COMPLETION STANDARDS**

Students must demonstrate through knowledge and flight tests the necessary aeronautical knowledge and skill required to obtain an FAA Commercial Pilot Certificate with an Airplane category single land class rating.

## **STAGE I OBJECTIVES**

Students will increase their aeronautical knowledge, understanding and ability to safely and accurately demonstrate proficiency with VFR cross-country procedures during local and cross-country day and night operations.

## **STAGE I COMPLETION STANDARDS**

The stage will be complete when students demonstrate safe, complete, and competent planning and execution of VFR day and night local and cross-country flight operations using pilotage, dead reckoning, navigation systems and radar services at a level that meets current FAA Commercial Pilot Airman Certification Standard.

## **STAGE II OBJECTIVES**

During this stage, students will be introduced to complex/technically advanced aircraft operations and commercial maneuvers. Emphasis is placed on safe and accurate performance of required maneuvers and procedures.

## **STAGE II COMPLETION STANDARDS**

The stage will be complete when students demonstrate safe and competent operation of the complex/technically advanced aircraft during all required flight maneuvers at a level that exceeds current FAA Commercial Pilot Airman Certification Standard.

## COMMERCIAL PILOT FLIGHT COURSE TIME ALLOCATION TABLE

STAGE	LESSON #	SCHEDULED TIME	DUAL A/C	SOLO	BRIEFING	INSTRUMENT	STAGE ORAL	STAGE FLIGHT	EQUIPMENT TYPE
<b>STAGE I</b>									
I	1	2.0	2.0DXC		0.5	As Req.			ASEL
I	2	2.0	2.0N		0.5				ASEL
I	3	2.0		2.0N					ASEL
I	4	2.0		2.0N					ASEL
I	5	2.0	2.5NXC						ASEL
I	6	4.0		2.0NXC					ASEL
I	7	2.0	2.0		0.5	As Req.			ASEL
I	8	2.5		4.0DXC	0.5				ASEL
I	9	2.0	2.0		0.5	As Req.			ASEL
I	10	2.0	2.0		0.5	As Req.			ASEL
I	11	2.0	2.0		.5	As Req.	2.0	2.0	ASEL
	<b>Totals</b>	<b>24.5</b>	<b>14.5</b>	<b>10.0</b>	<b>3.5</b>		<b>2.0</b>	<b>2.0</b>	
<b>STAGE II</b>									
II	12	2.0			0.5	As Req.			AATD/ASEL
II	13	2.0			0.5	As Req.			AATD/ASEL
II	14	2.0	2.0		0.5	As Req.			TAA or Complex
II	15	2.0	2.0		0.5	As Req.			TAA or Complex
II	16	2.0		2.0					TAA or Complex
II	17	2.0	2.0XC		0.5				TAA or Complex
II	18	2.0		2.0 XC					TAA or Complex
II	19	2.0		2.0 XC					TAA or Complex
II	20	2.0	2.0		0.5	As Req.			TAA or Complex
II	21	2.0	2.0		0.5	As Req.			TAA or Complex
II	22	2.5	2.5		.5	As Req.	2.0	2.0	TAA or Complex
	<b>Stage Total</b>	<b>22.5</b>	<b>12.5</b>	<b>6.0</b>	<b>4.0</b>		<b>2.0</b>	<b>2.0</b>	
	<b>Course Total</b>	<b>49.0</b>	<b>27.0</b>	<b>16.0</b>	<b>7.5</b>		<b>4.0</b>	<b>4.0</b>	

### NOTE

Students must meet minimum course total flight and briefing time requirements.

### NOTE

Students must obtain 5.0 hours of instrument training before completing the course.

# **STAGE I**

## **STAGE I OBJECTIVES**

Students will increase their knowledge, understanding and ability to safely and accurately demonstrate proficiency with VFR cross-country procedures during local and cross-country day and night flight operations in a non-complex/TAA aircraft.

## **STAGE I COMPLETION STANDARDS**

The stage will be complete when students demonstrate safe, complete and competent planning and execution of VFR day and night local and cross country flight operations using pilotage, dead reckoning, navigation systems and radar services at a level that meets current FAA Commercial Pilot (ASEL) Airman Certification Standards.

**STAGE I  
FLIGHT LESSON 1  
DUAL CROSS COUNTRY (ASE)**

**LESSON SEQUENCE**

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

**LESSON OBJECTIVE**

The student will review VFR cross country, instrument, and emergency procedures. The flight will be at least 2.0 hours, and travel a straight-line distance of at least 100 nautical miles from the original departure point.

*NOTE: Conduct required IR training only AFTER the final landing of the VFR cross-country portion of the lesson.*

**CONTENT**

**INTRODUCTION**

**Preflight Briefing**

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ Aircraft Systems
- \_\_\_ Single Pilot Resource Management
- \_\_\_ Aeronautical Decision Making
- \_\_\_ Commercial Pilot Privileges and Limitations

**Flight**

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Normal and/or Crswd Takeoff/Climb
- \_\_\_ Steep Turns
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Radio Comms. & ATC Light Signals
- \_\_\_ Radio Navigation and Radar Services
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Diversion
- \_\_\_ Lost Procedures
- \_\_\_ Power Settings and Fuel Management

- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Low Fuel Supply
- \_\_\_ Adverse Weather
- \_\_\_ Engine and Airframe Icing
- \_\_\_ Emergency Descent
- \_\_\_ Emergency Appch & Ldg (Sim)
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Normal and/or X-wind Appch & Ldg.
- \_\_\_ Emergency Equip. and Survival Gear
- \_\_\_ Wake Turbulence Avoidance
- \_\_\_ Traffic Pattern Operations
- \_\_\_ Airport and Rwy Mrkgs and Lghtg

**Instrument Procedures (IR)**

- \_\_\_ Basic Instrument Maneuvers

**Postflight**

- \_\_\_ Postflight Procedures

**COMPLETION STANDARDS**

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	X-COUNTRY _____
LANDINGS & LOCATION _____	
DUAL _____	HOOD/ACTUAL _____ BRIEF _____

## STAGE I FLIGHT LESSON 2 DUAL LOCAL/NIGHT (ASE)

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

The student will review night VFR flight operations including emergency procedures. in preparation for the first night solo.

### CONTENT

### REVIEW

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Normal and/or Crswd Takeoff / Climb
- \_\_\_ Normal and/or Crswd Approach/Lndg
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Steep Turns
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Systems and Equipment Malfunctions

### INTRODUCTION

- \_\_\_ Aeromedical Factors
- \_\_\_ Personal Equipment
- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Night Preflight
- \_\_\_ Aircraft Lighting and Equipment
- \_\_\_ Engine Start/Taxi/Before Takeoff Check
- \_\_\_ Night Scanning/Collision Avoidance
- \_\_\_ CFIT Avoidance
- \_\_\_ Power-On Stall (Imminent)
- \_\_\_ Power-Off Stall (Imminent)
- \_\_\_ Lost Procedures
- \_\_\_ Engine Failure (Simulated)

### Postflight

\_\_\_ Postflight Procedures

### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds current FAA Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
NIGHT LANDINGS & LOCATION _____	
DUAL ___ NIGHT ___ BRIEF ___	

**STAGE I  
FLIGHT LESSON 3  
SOLO NIGHT (ASE)**

**LESSON SEQUENCE**

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

**LESSON OBJECTIVE**

The student will review VFR night flight procedures, *obtain 1.5 hours solo night experience and conduct no fewer than five (5) full-stop night landings at a controlled airport.*

**CONTENT  
REVIEW**

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Aeromedical Factors
- \_\_\_ Personal Equipment
- \_\_\_ Night Preflight
- \_\_\_ Start, Taxi, Before Takeoff Check
- \_\_\_ Nrml and/or Crswd Takeoff and Climb
- \_\_\_ Collision Avoidance
- \_\_\_ Steep Turns
- \_\_\_ Power-On Stall (Imminent Only)
- \_\_\_ Power-Off Stall (Imminent Only)
- \_\_\_ Lost Procedures
- \_\_\_ Adverse Weather
- \_\_\_ Low Fuel Supply
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Normal and/or Crswd Appch & Ldng

**Postflight**

- \_\_\_ Postflight Procedures

**COMPLETION STANDARDS**

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
NIGHT LANDINGS & LOCATION _____	
NIGHT SOLO _____	BRIEF _____

**STAGE I  
FLIGHT LESSON 4  
SOLO NIGHT (ASE)**

**LESSON SEQUENCE**

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

**LESSON OBJECTIVE**

The student will review VFR night flight procedures, obtain 1.5 hours solo night experience and conduct no fewer than five (5) full-stop night landings at a controlled airport. *At lesson completion the student will have obtained no less than 3.0 hours solo night flight experience.*

**CONTENT**

**REVIEW**

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Aeromedical Factors
- \_\_\_ Personal Equipment
- \_\_\_ Night Preflight
- \_\_\_ Start, Taxi, Before Takeoff Check
- \_\_\_ Nrml and/or Crswd Takeoff and Climb
- \_\_\_ Collision Avoidance
- \_\_\_ Steep Turns
- \_\_\_ Power-On Stall (Imminent Only)
- \_\_\_ Power-Off Stall (Imminent Only)
- \_\_\_ Lost Procedures
- \_\_\_ Adverse Weather
- \_\_\_ Low Fuel Supply
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Normal and/or Crswd Appch & Ldng

**Postflight**

\_\_\_ Postflight Procedures

**COMPLETION STANDARDS**

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

*At lesson completion the student will have obtained no less than 3.0 hours solo night flight experience.*

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
NIGHT LANDINGS & LOCATION _____	
NIGHT SOLO _____	BRIEF _____

**STAGE I  
FLIGHT LESSON 5  
DUAL NIGHT CROSS-COUNTRY (ASE)**

**LESSON SEQUENCE**

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

**LESSON OBJECTIVE**

The student will conduct a night VFR cross country flight of at least 2.0 hours including a straight-line distance of at least 100 nautical miles from the original departure point.

*NOTE: Conduct required IR training only after the final landing of the VR portion of the lesson.*

**CONTENT**

**INTRODUCTION**

**Preflight Discussion**

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ Aircraft Systems
- \_\_\_ Single Pilot Resource Management
- \_\_\_ Aeronautical Decision Making

**Flight**

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Normal and/or Crswd Takeoff/Climb
- \_\_\_ Steep Turns
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Radio Comms. & ATC Light Signals
- \_\_\_ Radio Navigation and Radar Services
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Diversion
- \_\_\_ Lost Procedures
- \_\_\_ Power Settings and Fuel Management
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Low Fuel Supply
- \_\_\_ Adverse Weather
- \_\_\_ Power plant and Airframe Icing

- \_\_\_ Emergency Descent
- \_\_\_ Emergency Appch & Ldg (Sim)
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Normal and/or X-wind Appch & Ldg.
- \_\_\_ Emergency Equip. and Survival Gear
- \_\_\_ Wake Turbulence Avoidance
- \_\_\_ Traffic Pattern Operations

**Instrument Procedures**

- \_\_\_ Non-precision IAP

**Postflight**

- \_\_\_ Postflight Procedures

**COMPLETION STANDARDS:**

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	X-COUNTRY _____
NIGHT LANDINGS & LOCATION _____	
HOOD/ACTUAL _____ DUAL _____ BRIEF _____	



## STAGE I FLIGHT LESSON 6 SOLO NIGHT CROSS-COUNTRY (ASE)

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

The student will conduct a night VFR cross country flight to/from an airport further than 50 NM from the departure point.

### CONTENT

#### Preflight Planning

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Night Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather
- \_\_\_ Emergency Equip. and Survival Gear
- \_\_\_ Cockpit Management
- \_\_\_ Single Pilot Resource Management

#### Flight

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Normal and/or Crswd Takeoff/Climb
- \_\_\_ Steep Turns
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Radio Comms. & ATC Light Signals
- \_\_\_ Radio Navigation and Radar Services
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Lost Procedures
- \_\_\_ Power Settings and Fuel Management
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Normal and/or X-wind Appch & Ldg.

- \_\_\_ Traffic Pattern Operations
- \_\_\_ Appt and Rwy Mrkngs & Lighting

#### Postflight

- \_\_\_ Postflight Procedures

### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

*At lesson completion the student will have obtained at least 6.0 hours solo night flight experience, and (10) night take-offs and landings.*

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	X-COUNTRY _____
LANDINGS & LOCATION _____	
NIGHT SOLO _____	BRIEF _____

**STAGE I  
FLIGHT LESSON 7  
DUAL LOCAL (ASE)**

**LESSON SEQUENCE**

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

**LESSON OBJECTIVE**

The student is introduced to commercial flight maneuvers, takeoffs and landings, and Instrument approach procedures.

*NOTE: Conduct required IR training only AFTER the final landing of the VFR portion of the lesson.*

**CONTENT**

**INTRODUCTION**

- \_\_\_ Short Field Takeoff and Climb
- \_\_\_ Soft Field Takeoff and Climb
- \_\_\_ The Impossible Turn (Demonstration)
- \_\_\_ Chandelles
- \_\_\_ Lazy Eights
- \_\_\_ Steep Spiral
- \_\_\_ Emergency Descent
- \_\_\_ Eights On Pylons
- \_\_\_ Accelerated Stall (Imminent Only)
- \_\_\_ GPS Instrument Approach (IR)
- \_\_\_ Short Field Appch and Ldg
- \_\_\_ Soft Field Appch and Ldg

\_\_\_ Power-Off Accuracy Appch and Ldg

**REVIEW**

\_\_\_ Risk Assessment and Mitigation

**Postflight**

\_\_\_ Postflight Procedures

**COMPLETION STANDARDS**

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
RTE OF FLIGHT _____	
LANDINGS AND LOCATION _____	
HOOD/ACTUAL _____ DUAL _____ BRIEF _____	

## STAGE I FLIGHT LESSON 8 SOLO 250NM CROSS-COUNTRY (ASE)

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

The student will increase aeronautical knowledge and flight proficiency by conducting a VFR cross-country flight to a minimum of three airports with one leg of the route being not less than 250 NM straight-line distance from the original departure point. The student shall file, open, execute and close an FAA flight plan.

### CONTENT

#### Flight

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Departure Procedures
- \_\_\_ Radio Navigation and Radar Services
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Single Pilot Resource Management
- \_\_\_ Aprt and Rwy Mrkngs & Lighting
- \_\_\_ Collision Avoidance
- \_\_\_ Runway Incursion Avoidance
- \_\_\_ Normal and/or X-wind Appch & Ldg.
- \_\_\_ Airport and Runway Markings and Lighting

#### Postflight

- \_\_\_ Postflight Procedures

### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards on a solo VFR cross country flight with landings at three different airports and one leg of the route being not less than 250 NM straight-line distance from the original departure point. *At the completion of this lesson the student shall have obtained not less than 10 hours solo flight experience in the airplane.*

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	X-COUNTRY _____
LANDINGS & LOCATION _____	
SOLO _____	BRIEF _____

## STAGE I FLIGHT LESSON 9 DUAL LOCAL (ASE)

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

The student will review commercial flight maneuvers, including takeoffs and landings, and instrument approach procedures.

*NOTE: Conduct required IR training only after the final landing of the VR portion of the lesson.*

### CONTENT

### REVIEW

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Short Field Takeoff and Climb
- \_\_\_ Soft Field Takeoff and Climb
- \_\_\_ Chandelles
- \_\_\_ Lazy Eights
- \_\_\_ Steep Spiral
- \_\_\_ The Impossible Turn (Demonstration)
- \_\_\_ Emergency Descent
- \_\_\_ Eights On Pylons
- \_\_\_ Power-On Stall (Imminent)
- \_\_\_ Power-Off Stall (Imminent)
- \_\_\_ Short Field Appch and Ldg
- \_\_\_ Soft Field Appch and Ldg
- \_\_\_ Power-Off Accuracy Appch and Ldg

\_\_\_ Accelerated Stall (Imminent)

### Instrument Procedures (IR)

\_\_\_ Non-precision Instrument Approach

### Postflight

\_\_\_ Postflight Procedures

### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE	
CFI NAME / SIGNATURE / CFI # & EXP.	
ROUTE OF FLIGHT	
LANDINGS & LOCATION	
HOOD/ACT _____ DUAL _____ BRIEF _____	

**STAGE I**  
**FLIGHT LESSON 10**  
**DUAL LOCAL (ASE)**

**LESSON SEQUENCE**

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

\_\_\_ Non-precision Approach (IR)

**Postflight**

\_\_\_ Postflight Procedures

**LESSON OBJECTIVE**

The student will review the listed tasks in preparation for the stage check.

**CONTENT**

**REVIEW**

- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ Aircraft Systems
- \_\_\_ Aeronautical Decision Making
- \_\_\_ Commercial Pilot Privileges and Limitations
- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Short Field Takeoff and Climb
- \_\_\_ Soft Field Takeoff and Climb
- \_\_\_ Chandelles
- \_\_\_ Lazy Eights
- \_\_\_ Steep Spiral
- \_\_\_ The Impossible Turn (Demonstration)
- \_\_\_ Emergency Descent
- \_\_\_ Eights On Pylons
- \_\_\_ Power-On Stall
- \_\_\_ Power-Off Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Short Field Appch and Ldg
- \_\_\_ Soft Field Appch and Ldg
- \_\_\_ Power-Off Accuracy Appch and Ldg

**COMPLETION STANDARDS**

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
HOOD/ACT _____ DUAL _____ BRIEF _____	

## STAGE I FLIGHT LESSON 11 DUAL LOCAL STAGE CHECK (ASE)

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

This lesson is a stage check conducted by the Chief Instructor, Assistant Chief Instructor, or Check Instructor. The student will be evaluated on his/her knowledge and proficiency of/with the listed tasks according to current FAA Commercial Pilot Airman Certification Standard.

### CONTENT

#### ORAL

- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ Aircraft Systems
- \_\_\_ Aeronautical Decision Making
- \_\_\_ Commercial Pilot Privileges and Limitations
- \_\_\_ Risk Assessment and Mitigation

#### FLIGHT

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Short Field Takeoff and Climb
- \_\_\_ Soft Field Takeoff and Climb
- \_\_\_ X-Country Departure
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Radio Navigation and Radar Svcs
- \_\_\_ Chandelles
- \_\_\_ Lazy Eights
- \_\_\_ Steep Spiral
- \_\_\_ The Impossible Turn (Demonstration)
- \_\_\_ Emergency Descent
- \_\_\_ Eights On Pylons

- \_\_\_ Departure/Power-On Stall (Imm)
- \_\_\_ Appch to Lndg/Power-Off Stall (Imm)
- \_\_\_ Accelerated Stall (Imm)
- \_\_\_ System and Equipment Malfunctions
- \_\_\_ Engine Failure In Flight (Sim)
- \_\_\_ Emergency Appch & Ldg (Sim)
- \_\_\_ Short Field Appch and Ldg
- \_\_\_ Soft Field Appch and Ldg
- \_\_\_ Power-Off Accuracy Appch and Ldg
- \_\_\_ Postflight Procedures

### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE	
CFI NAME / SIGNATURE / CFI # & EXP.	
ROUTE OF FLIGHT	
LANDINGS & LOCATION	
HOOD/ACT _____ DUAL _____ BRIEF _____	

## **STAGE II**

### **STAGE II OBJECTIVE**

The student is introduced to dual and solo flight operations in the complex and/or technically advanced aircraft and learns to conduct all previously learned normal and emergency maneuvers and procedures in a complex and/or technically advanced aircraft. Procedures and maneuvers will be conducted in the single-engine airplane, as appropriate.

### **STAGE II COMPLETION STANDARD**

The stage and course is complete when the student demonstrates knowledge of and performs all required maneuvers and procedures at a level that exceeds current FAA Commercial Pilot Airman Certification Standards.

## STAGE II FLIGHT LESSON 12 AATD or DUAL LOCAL TAA or COMPLEX

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

The student is introduced to complex aircraft systems, maneuvers, and procedures in the AATD. Special emphasis is placed on developing proficiency in the execution of checklist procedures and configuration changes throughout flight operations.

### CONTENT

#### INTRODUCTION

- \_\_\_ Use of Checklists and Flows
- \_\_\_ Before Takeoff Check
- \_\_\_ Normal Takeoff and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Use of Constant Speed Propeller
- \_\_\_ Use of Retractable Lndg Gear / Flaps
- \_\_\_ Power Settings & Fuel Management
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Power-Off Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-On Stall
- \_\_\_ Landing Gear System Malfunctions
- \_\_\_ Propeller System Malfunction
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Rcvry From Unusual Flight Att. (IR)
- \_\_\_ The Impossible Turn (Demo)
- \_\_\_ Emergency Descent

- \_\_\_ Emer. Appch & Ldg (Sim)
- \_\_\_ Normal Approach and Landing

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR/IR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR/IR)
- \_\_\_ Autopilot failure (VR/IR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR/IR)

#### COMPLETION STANDARDS

The student will demonstrate proficiency in the knowledge and use of complex/technically advanced aircraft systems.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE	
CFI NAME / SIGNATURE / CFI # & EXP.	
ROUTE OF FLIGHT	
LANDINGS & LOCATION	
AATD ____ HOOD ____ BRIEF ____	



## STAGE II

### FLIGHT LESSON 13

#### AATD or DUAL LOCAL TAA or COMPLEX

#### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

#### LESSON OBJECTIVE

The student reviews complex aircraft systems, maneuvers and procedures in the AATD or ASEL. Special emphasis is placed on increasing knowledge and procedural proficiency prior to flight in a complex/technically advanced aircraft.

#### CONTENT (REVIEW)

- \_\_\_ Cockpit Management
- \_\_\_ Use of Checklists
- \_\_\_ Preflight Inspection
- \_\_\_ Before Takeoff Check
- \_\_\_ Normal Takeoff and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Use of Constant Speed Propeller
- \_\_\_ Use of Retractable Lndg Gear / Flaps
- \_\_\_ Power Settings & Fuel Management
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Power-Off Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-On Stall
- \_\_\_ Landing Gear System Malfunctions
- \_\_\_ Propeller System Malfunction
- \_\_\_ Rcvry From Unusual Flight Att. (IR)
- \_\_\_ The Impossible Turn (Demo)
- \_\_\_ Emergency Descent

- \_\_\_ Emer. Appch & Ldg (Sim)
- \_\_\_ Normal Approach and Landing

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR/IR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR/IR)
- \_\_\_ Autopilot failure (VR/IR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR/IR)

#### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
AATD _____ HOOD _____ BRIEF _____	

## STAGE II

### FLIGHT LESSON 14

#### DUAL LOCAL – TAA or COMPLEX

#### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

#### LESSON OBJECTIVE

The student is introduced to flight operations in the complex or technically advanced airplane. Special emphasis will be placed on the proper execution of collision avoidance, checklist procedures and configuration changes.

#### CONTENT

##### INTRODUCTION

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Operation of Systems
- \_\_\_ Performance and Limitations
- \_\_\_ Use of Checklists
- \_\_\_ Preflight Inspection
- \_\_\_ Engine Start, Taxi, Before T.O. Check
- \_\_\_ Normal and/or X-wnd T.O. and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Soft-Field T.O. & Climb
- \_\_\_ Use of Constant Speed Propeller
- \_\_\_ Use of Retractable Ldg Gear/Flaps
- \_\_\_ Power Setting & Fuel Management
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Turning Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-Off Stall
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Power-On Stall
- \_\_\_ Steep Turns
- \_\_\_ Chandelles
- \_\_\_ Lazy-Eights
- \_\_\_ Steep Spiral
- \_\_\_ Eights-On-Pylons
- \_\_\_ Basic Attitude IR Maneuvers (IR)
- \_\_\_ Recovery from Unusual Attitudes (IR)
- \_\_\_ Systems and Equipment Malfunctions

- \_\_\_ Emer. Appch & Ldg (Sim)
- \_\_\_ Short-Field Approach and Landing
- \_\_\_ Soft-Field Approach and Landing
- \_\_\_ Normal and/or X-wnd Appch/Lndg
- \_\_\_ Power-Off 180<sup>0</sup> Accuracy Appch & Ldg.

##### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR/IR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR/IR)
- \_\_\_ Autopilot failure (VR/IR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR/IR)

##### Postflight Procedures

- \_\_\_ Postflight Procedures

##### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards and warrants issuance of an endorsement to operate complex aircraft per 14 CFR Part 61.31(e), if applicable.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
HOOD _____ DUAL _____ BRIEF _____	

## STAGE II

### FLIGHT LESSON 15

#### DUAL LOCAL – TAA or COMPLEX

#### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

#### LESSON OBJECTIVE

The student reviews flight operations to gain proficiency in the complex or technically advanced airplane, with emphasis placed on proper execution of checklist procedures and configuration changes. This lesson prepares the student for cross-country flight operations in the complex or technically advanced aircraft.

#### CONTENT

#### REVIEW

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Use of Checklists
- \_\_\_ Preflight Inspection
- \_\_\_ Engine Start, Taxi, Before T.O. Check
- \_\_\_ Normal and/or X-wnd T.O. and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Soft-Field T.O. & Climb
- \_\_\_ Power Setting & Fuel Management
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Turning Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-Off Stall
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Power-On Stall
- \_\_\_ Steep Turns
- \_\_\_ Chandelles
- \_\_\_ Lazy-Eights
- \_\_\_ Steep Spiral
- \_\_\_ Eights-On-Pylons
- \_\_\_ Recovery from Unusual Attitudes (IR)
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Emerg Appch & Ldg (Sim)
- \_\_\_ Short-Field Approach and Landing

- \_\_\_ Soft-Field Approach and Landing
- \_\_\_ Normal and/or X-wnd Appch/Lndg
- \_\_\_ Power-Off 180<sup>0</sup> Accuracy Appch & Ldg.

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR/IR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR/IR)
- \_\_\_ Autopilot failure (VR/IR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR/IR)

#### Postflight Procedures

- \_\_\_ Postflight Procedures

#### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
HOOD _____ DUAL _____ BRIEF _____	

## STAGE II

### FLIGHT LESSON 16

#### SOLO TAA or COMPLEX LOCAL

#### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

#### LESSON OBJECTIVE

The student reviews flight operations to gain proficiency in the complex or technically advanced airplane, with emphasis placed on proper execution of checklist procedures and configuration changes. Requires complex endorsement.

#### CONTENT

##### REVIEW

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Use of Checklists
- \_\_\_ Preflight Inspection
- \_\_\_ Normal and/or X-wnd T.O. and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Soft-Field T.O. & Climb
- \_\_\_ Power Setting & Fuel Management
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Turning Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-Off Stall
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Power-On Stall
- \_\_\_ Steep Turns
- \_\_\_ Chandelles
- \_\_\_ Lazy-Eights
- \_\_\_ Steep Spiral
- \_\_\_ Eights-On-Pylons
- \_\_\_ Short-Field Approach and Landing
- \_\_\_ Soft-Field Approach and Landing
- \_\_\_ Normal and/or X-wnd Appch/Lndg
- \_\_\_ Power-Off 180<sup>0</sup> Accuracy Appch & Ldg.

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR/IR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR/IR)
- \_\_\_ Autopilot failure (VR/IR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR/IR)

#### Postflight Procedures

- \_\_\_ Postflight Procedures

#### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
SOLO _____ BRIEF _____	

## STAGE II

### FLIGHT LESSON 17

#### DUAL TAA or COMPLEX CROSS-COUNTRY

#### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

#### LESSON OBJECTIVE

The student increases proficiency with VFR cross-country flight operations in the complex or technically advanced aircraft during a flight of not less than 50 NM distance from the departure airport. Special emphasis is placed on proper planning and execution of VFR navigation, collision avoidance, checklist usage and configuration changes. *Minimum flight time for this lesson is 2.0 hours.*

#### CONTENT

##### INTRODUCTION

##### Flight

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ SRM and ADM
- \_\_\_ Cross-Country Departure
- \_\_\_ Normal and/or X-wnd Takeoff/Climb
- \_\_\_ Radio Comms. & ATC Light Signals
- \_\_\_ Radio Navigation and Radar Services
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Diversion
- \_\_\_ Lost Procedures
- \_\_\_ Power Settings and Fuel Management
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Low Fuel Supply
- \_\_\_ Adverse Weather
- \_\_\_ Recovery From Unusual Atts. (IR)
- \_\_\_ Power plant and Airframe Icing
- \_\_\_ Emergency Descent
- \_\_\_ Emer. Appch & Ldg (Sim)

- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Normal and/or X-wind Appch & Ldg.
- \_\_\_ Emergency Equip. and Survival Gear
- \_\_\_ Wake Turbulence Avoidance
- \_\_\_ Traffic Pattern Operations

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR/IR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR/IR)
- \_\_\_ Autopilot failure (VR/IR)
- \_\_\_ Turns, Climbs, Descents & Altitude
- \_\_\_ Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR/IR)

#### Postflight Procedures

- \_\_\_ Postflight Procedures

#### COMPLETION STANDARDS

The student will complete a VFR cross-country flight in the complex or technically advanced aircraft during a flight of not less than 50 NM distance from the departure airport. The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____		GRADE (C/INC) _____	
STUDENT NAME / SIGNATURE _____			
CFI NAME / SIGNATURE / CFI # & EXP. _____			
ROUTE OF FLIGHT _____		X-COUNTRY _____	
LANDINGS & LOCATION _____			
HOOD _____	DUAL _____	BRIEF _____	

## STAGE II

### FLIGHT LESSON 18

### SOLO TAA or COMPLEX CROSS-COUNTRY

#### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

#### LESSON OBJECTIVE

The student will increase proficiency with VFR solo cross-country flight operations in a complex or technically advanced aircraft and will demonstrate knowledge, risk management and skill on all tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standard. Special emphasis is placed on proper planning and execution of VFR navigation, collision avoidance, checklist usage and configuration changes. The student will log a minimum 2.0 hours of solo cross country flight time, and travel a straight-line distance of at least 100 nautical miles from the original departure point.

#### CONTENT

#### REVIEW

#### Flight

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ SRM and ADM
- \_\_\_ Cross-Country Departure
- \_\_\_ Normal and/or X-wnd Takeoff/Climb
- \_\_\_ Radio Comms. & ATC Light Signals
- \_\_\_ Radio Navigation and Radar Services
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Lost Procedures
- \_\_\_ Power Settings and Fuel Management
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Go-Around/Rejected Landing

- \_\_\_ Normal and/or X-wind Appch & Ldg.
- \_\_\_ Emergency Equip. and Survival Gear
- \_\_\_ Wake Turbulence Avoidance
- \_\_\_ Traffic Pattern Operations

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR)
- \_\_\_ Autopilot failure (VR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR)

#### Postflight Procedures

- \_\_\_ Postflight Procedures

#### COMPLETION STANDARDS

The student will complete a VFR cross-country flight in the complex or TAA during a flight of not less than 100 NM distance from the departure airport, and demonstrate knowledge, risk management and skill at a level that meets or exceeds Commercial Pilot ACS. The student must log a minimum 2.0 hours of solo cross country flight time, and travel a straight-line distance of at least 100 nm from the original departure point.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	X-COUNTRY _____
LANDINGS & LOCATION _____	
SOLO _____ BRIEF _____	



## STAGE II

### FLIGHT LESSON 19

#### SOLO TAA or COMPLEX CROSS-COUNTRY

#### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

#### LESSON OBJECTIVE

The student will increase proficiency with VFR solo cross-country flight operations in a complex or technically advanced aircraft and will demonstrate knowledge, risk management and skill on all tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standard. Special emphasis is placed on proper planning and execution of VFR navigation, collision avoidance, checklist usage and configuration changes. The student will log a minimum 2.0 hours of solo cross country flight time, and travel a straight-line distance of at least 100 nautical miles from the original departure point.

#### CONTENT

##### REVIEW

##### Flight

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Performance and Limitations
- \_\_\_ National Airspace System
- \_\_\_ Weather Information
- \_\_\_ SRM and ADM
- \_\_\_ Cross-Country Departure
- \_\_\_ Normal and/or X-wnd Takeoff/Climb
- \_\_\_ Radio Comms. & ATC Light Signals
- \_\_\_ Radio Navigation and Radar Services
- \_\_\_ Pilotage and Dead Reckoning
- \_\_\_ Lost Procedures
- \_\_\_ Power Settings and Fuel Management
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Low Fuel Supply

- \_\_\_ Adverse Weather
- \_\_\_ Power plant and Airframe Icing
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Normal and/or X-wind Appch & Ldg.
- \_\_\_ Emergency Equip. and Survival Gear
- \_\_\_ Wake Turbulence Avoidance
- \_\_\_ Traffic Pattern Operations

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & enroute) (VR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR)
- \_\_\_ Autopilot failure (VR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR)

#### Postflight Procedures

- \_\_\_ Postflight Procedures

#### COMPLETION STANDARDS

The student will complete a VFR cross-country flight in the complex or technically advanced aircraft during a flight of not less than 100 NM distance from the departure airport, and demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards. The student must log a minimum 2.0 hours of solo cross country flight time, and travel a straight-line distance of at least 100 nautical miles from the original departure point.

## STAGE II FLIGHT LESSON 20 DUAL TAA or COMPLEX

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

The student will review flight operations in the complex or technically advanced aircraft in preparation for the end-of-course exam and demonstrate knowledge, risk management and skill on all tasks at a level that exceeds current FAA Commercial Pilot Airman Certification Standard.

### CONTENT (REVIEW)

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Use of Checklists
- \_\_\_ Preflight Inspection
- \_\_\_ Engine Start, Taxi, Before T.O. Check
- \_\_\_ Normal and/or X-wnd T.O. and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Soft-Field T.O. and Climb
- \_\_\_ Power Setting & Fuel Management
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Turning Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-Off Stall
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Power-On Stall
- \_\_\_ Steep Turns
- \_\_\_ Chandelles
- \_\_\_ Lazy-Eights

- \_\_\_ Steep Spiral
- \_\_\_ Eights-On-Pylons
- \_\_\_ Recovery from Unusual Attitudes (IR)
- \_\_\_ The Impossible Turn (Demo)
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Emer. Appch & Ldg (Sim)
- \_\_\_ Short-Field Approach and Landing
- \_\_\_ Soft-Field Approach and Landing
- \_\_\_ Normal and/or X-wnd Appch/Lndg
- \_\_\_ Power-Off 180<sup>0</sup> Accuracy Appch & Ldg.

### Postflight Procedures

- \_\_\_ Postflight Procedures

### COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill on all required tasks at a level that meets or exceeds Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
HOOD/ACT _____ DUAL _____ BRIEF _____	



## STAGE II FLIGHT LESSON 21 DUAL TAA or COMPLEX

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

The student reviews flight operations in the complex or technically advanced airplane in preparation for the end-of-course exam.

### CONTENT

#### REVIEW

- \_\_\_ Certificates and Documents
- \_\_\_ Comm. Pilot Prvlgs and Lmtns.
- \_\_\_ Airworthiness Requirements
- \_\_\_ Performance and Limitations
- \_\_\_ Aircraft Systems
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Navigation Log
- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Use of Checklists
- \_\_\_ Preflight Inspection
- \_\_\_ Engine Start, Taxi, Before T.O. Check
- \_\_\_ Normal and/or Crswd T.O. and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Soft-Field T.O. and Climb
- \_\_\_ Power Setting & Fuel Management
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Turning Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-Off Stall
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Power-On Stall
- \_\_\_ Steep Turns
- \_\_\_ Chandelles
- \_\_\_ Lazy-Eights
- \_\_\_ Steep Spiral

- \_\_\_ Eights-On-Pylons
- \_\_\_ Recovery from Unusual Attitudes (IR)
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ Emer. Appch & Ldg (Sim)
- \_\_\_ Short-Field Approach and Landing
- \_\_\_ Soft-Field Approach and Landing
- \_\_\_ Normal and/or X-wnd Appch/Lndg
- \_\_\_ Power-Off 180<sup>0</sup> Accuracy Appch & Ldg.

#### TAA Procedures (If Applicable)

- \_\_\_ PFD/MFD power-up & preflight check
- \_\_\_ Autopilot pre-flight check
- \_\_\_ Flight, comm. and nav mode selection
- \_\_\_ Flight plan entry and changes (departure & en route) (VR/IR)
- \_\_\_ PFD/MFD failure, reversion modes, use of standby instruments (VR/IR)
- \_\_\_ Autopilot failure (VR/IR)
- \_\_\_ Turns, Climbs, Descents & Altitude Capture using AP
- \_\_\_ Course Intercepting & Trkg (VR/IR)

#### Postflight Procedures

- \_\_\_ Postflight Procedures

### COMPLETION STANDARDS

All tasks will be performed at a level that exceeds current FAA Commercial Pilot ACS.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
HOOD/ACT _____ DUAL _____ BRIEF _____	

## STAGE II FLIGHT LESSON 22 END-OF-COURSE STAGE CHECK DUAL TAA or COMPLEX

### LESSON SEQUENCE

1. Preflight Briefing
2. Flight
3. Post-flight Briefing and Evaluation

### LESSON OBJECTIVE

During the end-of-course stage check conducted by the Chief Flight Instructor or his/her designee, the student will be evaluated on his/her aeronautical knowledge, flight proficiency and risk management skills on all subject areas and tasks in accordance with current FAA Commercial Pilot Airman Certification Standards.

### CONTENT

#### ORAL

- \_\_\_ Certificates and Documents
- \_\_\_ Comm. Pilot Prvlgs and Lmtns.
- \_\_\_ Airworthiness Requirements
- \_\_\_ Performance and Limitations
- \_\_\_ Aircraft Systems
- \_\_\_ Cross-Country Flight Planning
- \_\_\_ Navigation Log

#### FLIGHT

- \_\_\_ Risk Assessment and Mitigation
- \_\_\_ Use of Checklists
- \_\_\_ Preflight Inspection
- \_\_\_ Engine Start, Taxi, Before T.O. Check
- \_\_\_ Normal and/or X-wnd T.O. and Climb
- \_\_\_ Short-Field Takeoff and Climb
- \_\_\_ Soft-Field T.O. and Climb
- \_\_\_ Maneuvering During Slow Flight
- \_\_\_ Turning Stall
- \_\_\_ Accelerated Stall
- \_\_\_ Power-Off Stall
- \_\_\_ Go-Around/Rejected Landing
- \_\_\_ Power-On Stall
- \_\_\_ Steep Turns
- \_\_\_ Chandelles

- \_\_\_ Lazy-Eights
- \_\_\_ Steep Spiral
- \_\_\_ Eights-On-Pylons
- \_\_\_ Recovery from Unusual Attitudes (IR)
- \_\_\_ Systems and Equipment Malfunctions
- \_\_\_ The Impossible Turn (Demo)
- \_\_\_ Emer. Appch & Ldg (Sim)
- \_\_\_ Short-Field Approach and Landing
- \_\_\_ Soft-Field Approach and Landing
- \_\_\_ Normal and/or CX-wnd Appch/Lndg
- \_\_\_ Power-Off 180<sup>0</sup> Acc. Appch & Ldg.

### Postflight Procedures

- \_\_\_ Postflight Procedures

### COMPLETION STANDARDS

At the completion of this lesson the student will demonstrate knowledge and proficiency that exceeds current FAA Commercial Pilot Airman Certification Standards.

DATE _____	GRADE (C/INC) _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION _____	
HOOD/ACT _____ DUAL _____ BRIEF _____	