CIRRUS PILOT

TRANSITION TRAINING SYLLABUS VFR EDITION





Transition Training Syllabus VFR Edition

Cirrus SR20, SR22, SR22 Turbo

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Course Pending FITS Acceptance

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Cirrus Pilot

VFR Transition Training

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Introduction

Welcome to the Cirrus VFR Transition course. This course is designed to transition current and proficient pilots into all models of Cirrus aircraft to a VFR proficiency level.

The Transition course will teach you the unique operating procedures of the Cirrus aircraft for both normal and abnormal situations. Upon successful completion of all course objectives, your instructor will issue you a certificate of completion and a course summary detailing flight and ground time acquired during this course.

Specific transition training prerequisites are detailed in this document. It is important to complete all prerequisites prior to starting transition training to ensure a timely and successful completion of the course.

The Transition course is designed to take approximately three (3) days to complete. Timely completion of this course is dependent on the performance and proficiency of the Cirrus pilot and completion of the required prerequisites. Transition training does not constitute a FAA practical test, Biennial Flight Review (BFR) or an Instrument Proficiency Check (IPC), If a BFR or IPC is desired, schedule additional time. A high performance endorsement will be awarded at the successful completion of all course objectives, if necessary.

All Cirrus pilots should follow the recurrent training schedule outlined in the Cirrus Pilot Learning Plan after successful completion of this training event.

The course incorporates effective and proven training techniques developed in conjunction with the FAA Industry Training Standards (FITS). Emphasis is placed on developing judgment, aeronautical decision making, risk management and single pilot resource management throughout the entire course through the use of scenario based training.

Pre-Training Assignments

Successful on-schedule completion of the Transition course is heavily dependent on devoting the proper amount of time to reviewing and studying the pre-training material.

Please review the material you have received in your training kit and as listed in the "References" section of this document.

Syllabus Overview

The Transition course is composed of 7 required lessons and 1 optional lesson. The course should take approximately 3 days to complete the required lessons and an additional ½ day to complete the optional BFR.

The training program includes instruction on normal and emergency procedures as well as proven standard operating procedures developed by UNDAF and Cirrus Design. Aeronautical decision making and effective risk management will be major emphasis areas, while maintaining the highest level of safety.

Course Overview

- Lesson 1: This ground lesson will be an introduction to scenario-based training and Cirrus transition training. It will include a review of pre-training materials including model-specific topics, and a session in a cockpit procedures trainer.
- Lesson 2: This flight lesson is an introduction to the operational characteristics of Cirrus aircraft. The focus will be on maneuvers and takeoffs in landings in various configurations and situations.
- Lesson 3: This flight lesson is an introduction to normal procedures. It is a 3-leg cross country where the Cirrus pilot will implement normal procedures including checklists, enroute procedures, and arrival procedures.
- Lesson 4: This flight lesson will focus on abnormal and emergency procedures that are somewhat common to all aircraft. The lesson is a 3-leg cross country. The desired outcomes of this lesson are best achieved in a Flight Training Device (FTD), but the use of an aircraft is acceptable.

- Lesson 5: This flight lesson will focus on avionics malfunctions. It is a 3-leg cross country that will focus on abnormalities with the PFD, MFD, autopilot, and GPS receivers.
- Lesson 6: This flight lesson will focus on systems malfunctions. It is a 3-leg cross country that will emphasize good ADM and risk management while generating acceptable solutions to malfunctions of systems of the aircraft.
- Lesson 7: This flight lesson is the final evaluation flight. The flight is a 2-leg cross country in which the Cirrus pilot will demonstrate the knowledge and skill required to safely fly the Cirrus aircraft in single pilot operations.

Optional: Biennial Flight Review

Course Completion Standards

A certificate of completion will be awarded at the satisfactory completion of lesson 7 when the Cirrus pilot has met the required desired outcomes for all required tasks while demonstrating judgment, aeronautical decision making abilities, single-pilot resource management and risk management skills to safely fly a Cirrus aircraft.

The Cirrus pilot shall perform the maneuvers and procedures at the standard defined in the FAA Practical Test Standards (or international equivalent) for the pilot certificate held.

The following table lists the minimum amount of time and landings, that are required to complete the course. Instructors and Cirrus pilots should keep in mind that these are the absolute minimums, and that successful completion of the course is dependent on meeting the required desired outcomes.

Flig	Flight Hours Ground/Pre		Ground/Pre	
Total	Airplane	FTD*	Landings	Post Time**
10.0	7.0	0.0	20	8.0

- * A maximum of 3 hours of flight training in an approved FTD may be used towards the 10 hour minimum course flight time requirement.
- ** The time noted under Ground/Pre Post Time is approximate and may vary based on experience and scenario.

Approved FTD

A level one or higher flight training device (FTD) can be used to complete specified lessons in this course provided it matches the avionics configuration and model of the aircraft in which the flight training is being conducted.

Reference Materials

All instructional procedures, materials, and training activities will conform to the guidelines established for standardized instruction and scenario-based training as outlined in the Instructor Supplement. All guidelines are in compliance with FAA Industry Training Standards (FITS).

Interactive Pre-training

- Cirrus Perspective Avionics Package
- Avidyne Avionics Package

Training Publications

- Cirrus Flight Operations Manual (FOM)
- Cirrus Aircraft Workbook
- Cirrus Standardized Instructor Supplement
- Cirrus Pilot Learning Plan

Aircraft Publications

- Aircraft Pilot's Operating Handbook
- Appropriate Avionics Manuals

Additional Training Resources

- Resource Center for Cirrus Training (eZ LMS)
 - http://cirrus.aero.und.edu/resources.php
- Cirrus Aircraft Training Software (CATS)
- Pilot's World
 - o http://www.cirrusdesign.com:4515/pilotsworld
- Aerosim Avionics System Training (Avidyne Avionics)
- FAA Industry Training Standards (FITS)
 - http://www.faa.gov/education_research/training/fits

FAA Publications

Appropriate Practical Test Standards (PTS)

EZ LMS

EZ LMS is a web-based learning management system with a wealth of resources available to Cirrus pilots and instructors. Pilots can find the latest presentations, publications, and tools for the equipment installed in Cirrus airplanes.

Pilot's World

Pilots World is an online resource created by Cirrus Design to communicate important training issues and operating techniques for Cirrus pilots. A new topic is posted each month consisting of a ground segment and flight segment. The ground segment contains discussion, information and activities pertinent to that month's topic. The flight segment has suggested flight training activities related to the ground segment. Topics on Pilots World have ranged from Preventing Controlled Flight into Terrain to Single Pilot IFR Operations.

How to Use this Course

This syllabus is designed for the following elements to be used in conjunction with the overall course completion standards.

Note: Each element will be described in detail throughout this section.

- Desired Outcome: This is the grade the Cirrus pilot has achieved for the particular task. (Describe, Explain, Practice, Perform, Manage/Decide)
- > Task Checklist: These items need to be completed by the Cirrus pilot to the appropriate desired outcome.
- List of Assessment Items: Explanation of what needs to be observed by the instructor for the Cirrus pilot to meet the desired outcome for each task.
- Lesson Completion Standards: Explanation of the requirements to consider each lesson complete or incomplete.

Within each lesson the instructor and Cirrus pilot will reference the task checklist for each lesson and the appropriate assessment items to determine whether each task is completed to the minimum desired outcome needed to meet the lesson completion standards.

Desired Outcomes

The objective of scenario-based training is to change the thought processes, habits, and behaviors of the Pilot-In-Training (Cirrus pilot) during the planning and execution of the scenario. A key element of this training is learner-centered grading.

The following two lists describe possible desired outcomes that will help measure the success of the training. These desired outcomes describe to which performance level the Cirrus pilot is currently operating. The grading of each task should be conducted independently by the Cirrus pilot and the instructor, and then compared during the post flight critique.

Maneuver Grades (Tasks)

- ▶ Describe At the completion of the scenario, the Cirrus pilot will be able to describe the physical characteristics and cognitive elements of the scenario activities. *Instructor assistance is* required to successfully execute the maneuver.
- Explain At the completion of the scenario the Cirrus pilot will be able to describe the scenario activity and understand the underlying concepts, principles, and procedures that comprise the activity. Significant instructor effort will be required to successfully execute the maneuver.
- Practice At the completion of the scenario the pilot in training will be able to plan and execute the scenario. Coaching, instruction, and/or assistance from the CFI will correct deviations and errors identified by the CFI.
- Perform At the completion of the scenario, the Cirrus pilot will be able to perform the activity without assistance from the CFI. Errors and deviations will be identified and corrected by the Cirrus pilot in an expeditious manner. At no time will the successful completion of the activity be in doubt. ("Perform" will be used to signify that the Cirrus pilot is satisfactorily demonstrating proficiency in traditional piloting and systems operation skills)
- Not Observed Any event not accomplished or required

Single Pilot Resource Management (SRM) Grades

- Explain The pilot in training can verbally identify, describe, and understand the risks inherent in the flight scenario. The pilot in training will need to be prompted to identify risks and make decisions.
- Practice The pilot in training is able to identify, understand, and apply SRM principles to the actual flight situation. Coaching, instruction, and/or assistance from the CFI will quickly correct minor deviations and errors identified by the CFI. The pilot in training will be an active decision maker.
- Manage/Decide The pilot in training can correctly gather the most important data available both within and outside the cockpit, identify possible courses of action, evaluate the risk inherent in each course of action, and make the appropriate decision. Instructor intervention is not required for the safe completion of the flight.
- Not Observed Any event not accomplished or required

Task Checklist

The task checklist is a tool used for tracking the tasks and their associated desired outcomes during each lesson. The syllabus contains both required and optional tasks. As implied, the required tasks must be completed to the shaded desired outcome for the lesson to be complete. Optional tasks may be executed at the request of the instructor or the Cirrus pilot. Any task that is not observed should receive no check mark.

Below is an example of the task checklist. The left column contains the task. The check boxes provide the Cirrus pilot and instructor a place to record his/her assessment of the flight. The gray shaded box is the required desired outcome for that task for that particular lesson. More information about desired outcomes can be found in the "Desired Outcomes" section of this document.

Note: While many tasks will be repeated throughout the lessons in the course, the required desired outcome for those tasks will change throughout the course as the lessons progress.

Note: Optional tasks are not shaded.

Task
Practice
Perform
Steep Turns
Power On Stalls
AP Stall Recognition

Assessment Items

Each of the assessment items are given to ensure the appropriate standardized tasks are accomplished to the required desired outcome for each lesson. They are presented in a manner that that assists the qualified instructor in successfully determining whether the Cirrus pilot has met both the lesson completion standards and the course completion standards. The Assessment items are not an exhaustive list in nature; a qualified instructor may determine additional assessment items to ensure the Cirrus pilot has met the completion standards of the course.

At the end of each lesson or lesson segment, the Cirrus pilot will use the listed assessment items to self-critique performance. The instructor will also critique the Cirrus pilot's performance. From this, a guided discussion will follow to determine whether the tasks for the lesson were completed to the required desired outcome.

While these assessment items are essential to properly measure the Cirrus pilot's behavior, instructors are expected to adhere to the Pilot's Operating Handbook and standardization procedures included in the Flight Operations Manual. Any tasks not performed to the required desired outcome will be reviewed until the appropriate standards have been met for that lesson.

Note: Assessment items have been developed for all available options on a current aircraft; therefore, it may be necessary to exclude assessment items if they are not applicable to your aircraft.

Note: The flight instructor's final determination of whether that task has met the required desired outcome should be withheld until the Cirrus pilot is able to self-critique at the end of the flight.

Note: The assessment items for all tasks in this course can be found in the "List of Assessment Items" section of this document.

Lesson Completion Standards

Each lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Model-Specific Tasks

Certain tasks within this course will only apply to the SR22 Turbo aircraft. Unless noted with the following designation, tasks will apply to all Cirrus aircraft.

(T) SR22 Turbo Aircraft

(Normally Aspirated) SR22 Normally Aspirated Aircraft

Learning Considerations

The following learning considerations will aid the Instructor and Cirrus pilot in optimizing training for maximum effectiveness and ensuring the greatest amount of learning takes place within the safety constraints outlined within the FOM. This process involves satisfying the overall course completion standards while clearly stating lesson objectives that support these standards. This is achieved by incorporating principles that include proper preflight, in-flight, and post flight training considerations, found in the subsequent sections below.

Preflight Briefing

In addition to any regulatory requirements, the Cirrus pilot and instructor should discuss the following items prior to beginning this course.

- Amount, recency, and type of previous flight experience Review the pilot's experience including total time and recency of experience to effectively evaluate the need for a particular task.
- Type of equipment to be utilized Assessment shall be given to the type of equipment installed (such as PFD, MFD, Ice protection, etc.)
- Nature of Flight operations
 The instructor should consider the type of flying typically done by

the Cirrus pilot to assist in customizing the course content.

- Goals and Objectives
 - In addition to the required tasks, Cirrus pilots should have specific goals and objectives to accomplish during the course. Instructors should customize the course to include the requested tasks and verify all required tasks for the course are completed.
- Flight Operations Manual (FOM)
 Review procedures appropriate to the current lesson.
- Additional training resources provided by organizations such as the FAA, COPA, AOPA, UND Aerospace, and electronic resources.

 The instructor should take time to discuss the many training

resources available to the Cirrus pilot. These resources provide a vast knowledge base available on the internet.

Review of Regulations and Aeronautical Information Manual (AIM)
The instructor should tailor the review of general operating and
flight rules that are applicable to the scenario. The objective is to
ensure the pilot can comply with all regulatory requirements and
operate safely in various types of airspace and weather
conditions (in accordance with his/her personal minimums). The
instructor should conduct a review that is broad enough to meet
areas in which the pilot's knowledge is deficient.

Flight Training

The instructor will present the material for each lesson in a scenario-based format during a cross country flight. Cross country flights should be conducted in a manner in which the Cirrus pilot has ample time to conduct normal procedures such as checklists, en route procedures, and arrival procedures – 30 to 45 min in duration of each leg is preferred. While conducting the transition training the instructor and Cirrus pilot should recognize each individual's role within the transition training:

While performing transition training, the instructor will:

- Be the sole and *final* authority regarding whether or not the desired outcomes and assessment items are considered complete.
- Be the *final* authority in all decisions regarding termination and/or continuation of the transition lesson.

While performing transition training, the Cirrus pilot who is already appropriately rated to operate the aircraft will:

- Act as the pilot-in-command of the aircraft. .
- Transfer controls using positive exchange of flight controls procedures [Reference: "Introduction: Positive Exchange of Flight Controls," Private Pilot for Airplane Single-Engine Land and Sea Practical Test Standards].

Post Flight Critique

Although a critique may seem intimidating, it is an integral part of the lesson. A good critique closes the chapter on the training event and sets the stage for future learning. The critique is not intended as a barrier to progress, but rather a step that advances the learning process, allowing the learner and the instructor to best evaluate how to proceed. The Cirrus pilot should lead the critique with guidance from the instructor.

At the end of each lesson or lesson segment, the Cirrus pilot should selfcritique his or her performance. The Cirrus pilot should review each task in the lesson and use the associated assessment items to determine which desired outcome was achieved for that task. The instructor will also critique the Cirrus pilot's performance. From this, a guided discussion will follow to determine whether the tasks for the lesson were completed to the required desired outcome.

The instructor should keep detailed notes throughout the flight so an effective critique can be accomplished after each lesson. For additional information on performing effective critiques utilize the FAA Aviation Instructor Handbook (FAA-H-8083-9).

List of Assessment Items

The following list of assessment items will help the instructor determine to which desired outcome the Cirrus pilot is currently conducting the tasks associated with each lesson throughout the course. The purpose of these assessment items is to give guidance as to what needs to be accomplished on each task for each lesson.

Note: These assessment items are used to evaluate each task. The level at which these tasks are expected to be performed are based on the Desired Outcomes required in the specific lesson.

Ground Briefing

Instructor-Student Relationship

- Cirrus pilot conducted a self assessment related to the safety of flight.
- Cirrus pilot discussed the importance of maintaining the safety culture.
- Cirrus pilot discussed the instructor/student relationship in regards to interaction in and outside the aircraft.
- Cirrus pilot reviewed his/her personal minimums with the instructor conducting the training.

Course Briefing / Overview

- Cirrus pilot discussed the FITS concept of student-led training.
- Cirrus pilot described the requirements for the completion of the course.

Review of Pre-Training Material

- Cirrus pilot discussed how the POH relates to the safe operation of the aircraft.
- Cirrus pilot has completed the pre-training material as outlined in the pre-training checklist in the front of this document.

Analysis of Cirrus Scenarios

- Cirrus pilot identified the system affected in each scenario.
- Cirrus pilot discussed what risk is acceptable for each scenario.
- Cirrus pilot identified the risk factors associated with operating at higher altitudes and identified ways to reduce those risks.

Introduction to Avionics Using a Cockpit Procedures Trainer

- Cirrus pilot accomplished normal checklist procedures of the Cirrus Aircraft.
- Cirrus pilot described the general avionics symbology and functionality.
- Cirrus pilot practiced using functions of the avionics system.
 - Started up and initialized the PFD/MFD.
 - Identified information and customized the presentation on the PFD and MFD.
 - Navigated through pages and menus of avionics.
 - Switched sources of navigation on the HSI presentation and identified which source was currently being used.
 - Tuned and activated Nav and Com frequencies.
 - Programmed and activated Direct-to navigation.
 - Created and modified flight plans (using Victor airways if applicable).
 - Found destination airport information using the avionics.
 - Found the nearest airport/VOR/center frequency/FSS frequency using the avionics.
 - Used vertical navigation functions of the GPS/FMS.
 - Used electronic checklists.
 - Used electronic approach charts if available.
 - Used various modes of the autopilot and demonstrated when to use each mode.
 - Set autopilot bugs for heading, course, altitude, and vertical speed.
 - Entered transponder codes and used the ident function.
 - Used timers that were available in the aircraft.
 - Used lean assist to aid in leaning the engine mixture.
 - Demonstrated TAWS system if available.
 - Demonstrated traffic avoidance system and how to use it effectively if available.
- Cirrus pilot practiced the proper procedures to safely operate the Cirrus Aircraft Parachute System (CAPS).

Preflight Briefing

Lesson Objectives

- Cirrus pilot reviewed the objectives of the lesson and the desired outcomes required to meet completion standards.
- Cirrus pilot discussed how lesson objectives relate to overall course completion standards.

Flight Overview

- Cirrus pilot discussed the lesson content including scenarios that will be presented while in flight.
- Cirrus pilot discussed the importance of a positive exchange of the flight controls.
- Cirrus pilot discussed the relationship of the student and instructor.
- Cirrus pilot discussed circumstances in which the flight will be continued or discontinued.

Risk Management

Manage Risk Using the 5P Checklist

- Cirrus pilot used this risk management tool to aid in sound judgment, resource management, and risk management.
- Cirrus pilot used the 5P Checklist at the following intervals: flight planning, before takeoff, enroute, and top of descent.

The 5P Checklist			
Plan	➤ Weather		
	Route		
	Publications		
	➤ ATC Delays		
	Fuel Remaining		
Plane	Mechanical Status		
	Automation Status		
	 Database Currency Circuit Breakers 		
	Backup Systems		
Pilot	"I"llness "M"edication "S"tress "A"lcohol "F"atigue "E"motion		
	"M"edication		
	> "S"tress		
	"A"Icohol		
	➤ "F"atigue		
Passengers	Pilots or non-pilots Nervous or quiet Experienced or new Helpful or a handful		
	Nervous or quiet		
	Experienced or new		
	Helpful or a handful		
	Urgent or optional		
	Business or pleasure		
Programming	Preprogram the:		
	> Autopilot		
	➢ GPS		
	> MFD/PFD		
	Anticipate:		
	Likely reroutes and clearances		
	Crunch points		
	Manual backup		
	High terrain encounters		

Single Pilot Resource Management / Overall Flight

Task Management

- Cirrus pilot prioritized and selected the appropriate tasks (or series of tasks) to ensure successful completion of the training scenario.
- Cirrus pilot managed the resources (both on-board the aircraft and from outside sources) available (prior to and during flight) to ensure that the successful outcome of the flight was never in doubt.
- Cirrus pilot integrated the use of the PFD, MFD, FMS(if installed), and autopilot to reduce workload and increase situational awareness.

Automation Management

- Cirrus pilot programmed and utilized the appropriate modes of cockpit automation to ensure successful completion of the scenario.
- Cirrus pilot described appropriate times to use automation and recognized when to revert to lower levels of automation or handflying.

Avionics Usage

- Cirrus pilot used the electronic checklists and other available information on MFD during the appropriate phase of flight.
- Cirrus pilot used the airport diagram to reduce the risk of runway incursions.
- > Cirrus pilot entered the route of flight into the flight plan.
- Cirrus pilot utilized the autopilot or flight director (FD) as appropriate for climbs, descents, altitude hold, and course guidance.
- Cirrus pilot used and interpreted available weather information on the MFD to aid in good decision-making and to ensure safe outcome of the flight while applying the 5P checklist. Cirrus pilot effectively conducted instrument cross-checks, proper instrument interpretation, and positive aircraft control while using the PFD and other related avionics.
- Cirrus pilot used the MFD to effectively maintain situational awareness while integrating visual and instrument cues.
- Cirrus pilot properly integrated the normal use of the PFD, MFD, FMS (if installed), autopilot, and related avionics to safely operate the Cirrus aircraft.

Radio Communication

- During the flight, the Cirrus pilot obtained clearances from ATC and demonstrated an appropriate response to ATC when those clearances were unclear.
- Cirrus pilot established and maintained proper communication with ATC, tower or UNICOM.
- Cirrus pilot acquired communication and navigation frequencies using appropriate avionics.

Risk Management and Aeronautical Decision-Making (ADM)

- Cirrus pilot made informed decisions in a timely manner.
- During low and high work loads the Cirrus pilot evaluated his/her course of action and identified resources he/she could use to reduce risk.
- During the scenarios the Cirrus pilot identified planned and unplanned situations as they occurred.
- During the scenarios the Cirrus pilot effectively assessed alternatives and implemented the appropriate course of action while using the 5P checklist.
- During the scenarios, the Cirrus pilot continued to evaluate his/her decisions and identify additional risk using the 5P checklist.

Situational Awareness

Cirrus pilot was aware of traffic, environment, fuel state, aircraft mechanical condition, pilot fatigue level, and the related impact on the successful completion of the training scenario.

Controlled Flight into Terrain (CFIT) Awareness

Cirrus pilot described and applied techniques to avoid CFIT during inadvertent encounters with IMC during VFR and IFR flight.

Pre-Takeoff

Preflight Preparation

- Cirrus pilot properly acquired, interpreted, and briefed the instructor on the current weather information for the route of flight.
- Cirrus pilot determined that he/she has enough fuel to safely make the flight.
- Cirrus pilot is familiar with the CG limits of the aircraft and has determined the CG is within aircraft limitations.
- Cirrus pilot is familiar with the performance limitations of the aircraft and discussed how density altitude will affect the performance of the aircraft during critical phases of flight.

- Cirrus pilot identified the risks of this flight and related his/her personal minimums to weather conditions encountered.
- Cirrus pilot used the I.M.S.A.F.E checklist and practiced identifying any associated risks that may affect a go/no-go decision.
- Cirrus pilot identified the risk elements appropriate to the transition training scenario and would be able to categorize the risks of the flight into the 5P checklist.
- Cirrus pilot completed the preflight inspection in accordance with the POH.

Engine Start

- Cirrus pilot identified the best start procedure.
- > Cirrus pilot used proper clearing procedures prior to engine start.
- > Cirrus pilot monitored engine indications after engine start.

Before Taxi

Cirrus pilot completed the before taxi checklist.

Taxi

- Cirrus pilot taxied aircraft while maintaining directional control with minimal use of brakes.
- Cirrus pilot used airport diagram presentation on MFD to aid in situational awareness and to avoid runway incursions (if available).
- Cirrus pilot completed the taxi checklist.

Before Takeoff

- Cirrus pilot completed the before takeoff checklist.
- Cirrus pilot determined the best type of takeoff and configuration to conduct for each scenario.
- Cirrus pilot used proper clearing procedures when taxiing onto the active runway.
- Cirrus pilot configured the avionics prior to taxiing onto the runway.
- Cirrus pilot conducted a takeoff briefing on information pertaining to the safety of the flight.

Takeoff and Climb

Normal/Crosswind Takeoff

- Cirrus pilot chose to reduce risk by ensuring a minimum of 2.5 times the runway distance required for takeoff was available.
- Cirrus pilot demonstrated the appropriate techniques to perform a normal/crosswind takeoff.

- Cirrus pilot maintained centerline on takeoff as the power was increased.
- Cirrus pilot monitored engine instruments for abnormalities during the takeoff roll.
- Cirrus pilot aborted the takeoff if any abnormalities were observed.

Short-field Takeoff

- Cirrus pilot described the associated conditions related to conducting a short-field takeoff.
- Cirrus pilot demonstrated the appropriate techniques to perform a short-field takeoff.
- Cirrus pilot anticipated the increased left-turning forces on the airplane and maintained centerline.
- Cirrus pilot monitored engine instruments for abnormalities during the takeoff roll.
- Cirrus pilot aborted the takeoff if any abnormalities were observed.
- Cirrus pilot maintained the best angle of climb (V_X) airspeed until any obstacles were cleared.

Soft-field Takeoff

- Cirrus pilot described the associated conditions related to conducting a soft-field takeoff.
- Cirrus pilot considered the recent weather conditions (or simulated) prior to using a soft field for takeoff.
- Cirrus pilot demonstrated the appropriate techniques to perform a soft-field takeoff.
- Cirrus pilot monitored engine instruments for abnormalities during the takeoff roll.
- Cirrus pilot aborted the takeoff if any abnormalities were observed.

Climb

- Cirrus pilot used the autopilot to assist in climb-out if appropriate.
- > Cirrus pilot retracted the flaps at the appropriate time.
- Cirrus pilot selected the appropriate altitude to turn onto course.
- Cirrus pilot used the traffic system to aid in visually acquiring other aircraft while using proper scanning techniques for collision avoidance.
- Cirrus pilot completed the climb checklist.
- Cirrus pilot established the proper power and mixture settings on climb out.
- Cirrus pilot transitioned to an en-route climb and utilized engine monitoring to maintain proper engine cooling.
- Cirrus pilot used the oxygen system if applicable and donned the mask/cannula prior to reaching an altitude where oxygen is required.

Cruise

Initial Cruise

- Cirrus pilot followed the proper leaning procedure as outlined in the POH.
- Cirrus pilot completed the cruise checklist.

Enroute Cruise

- Cirrus pilot maintained situational awareness using available resources.
- Cirrus pilot used the appropriate modes of the autopilot for cruise flight.
- Cirrus pilot continued to use oxygen at altitudes where it is required or needed.
- Cirrus pilot assessed possible alternatives for final destination airports and selected the appropriate destination using available resources including weather information available in the cockpit.

Descent and Landing

Descent and Arrival Procedures

- Cirrus pilot used the correct arrival and approach procedure needed to safely transition from en route to arrival.
- Cirrus pilot used the satellite weather to aid in determining the active runway and/or traffic pattern entry.
- Cirrus pilot conducted descent planning to avoid unnecessary high rates of descent which could lead to passenger discomfort or excessive engine cooling.
- Cirrus pilot chose a safe, alternate course of action for approach and arrival for the given the conditions.
- Cirrus pilot established a stabilized descent and arrival.
- Cirrus pilot can identify the primary hazards of partial power while operating the autopilot.
- Cirrus pilot chose a safe course of action to transition from arrival to a safe landing.
- Cirrus pilot properly adjusted airspeed for arrival at the airport.
- Cirrus pilot used available internal and external resources to choose a safe runway for landing and properly entered the airport area of the arrival airport.

Traffic Pattern

- Cirrus pilot maintained the appropriate altitude and airspeed during traffic pattern operations.
- Cirrus pilot configured aircraft correctly for the landing being conducted.
- Cirrus pilot completed the before landing checklist prior to entering the traffic pattern.
- Cirrus pilot disconnected the autopilot prior to entering the traffic pattern.

Normal/Crosswind Landing

- Cirrus pilot demonstrated the appropriate techniques to perform a normal/crosswind landing.
- Cirrus pilot established appropriate approach, landing configuration, and airspeed in accordance with the SOP's.
- Cirrus pilot conducted a stabilized approach which included:
 - Proper airspeed
 - Correct flight path
 - Correct landing configuration
 - Power setting appropriate for aircraft configuration
 - Sink rate not abnormal
 - Checklists complete
- Cirrus pilot made smooth, timely, and correct control application during roundout and touchdown.
- Cirrus pilot executed a go-around when a stabilized approach could not be obtained and maintained by 500 ft. AGL.
- Cirrus pilot maintained directional control and centerline throughout approach and landing sequence.

Short-field Landing

- Cirrus pilot demonstrated the appropriate techniques to perform a short-field landing.
- Cirrus pilot conducted a stabilized approach which included:
 - Proper airspeed
 - Correct flight path
 - Correct landing configuration
 - Power setting appropriate for aircraft configuration
 - Sink rate not abnormal
 - Checklists complete
- Cirrus pilot identified touchdown and go-around points prior to performing landings.
- Cirrus pilot executed a go-around when a stabilized approach could not be obtained by 500 ft AGL.
- Cirrus pilot maintained directional control and centerline throughout approach and landing sequence.

Soft-field Landing

- Cirrus pilot demonstrated the appropriate techniques to perform a soft-field landing.
- Cirrus pilot adequately surveyed the runway environment prior to landing on a soft-field runway.
- Cirrus pilot considered the recent weather conditions when deciding the safety of landing on the soft-field runway.
- Cirrus pilot used the appropriate resources to ensure the runway was suitable to land on.
- Cirrus pilot made smooth, timely, and correct control application during roundout and touchdown.
- Cirrus pilot executed a go-around when a stabilized approach could not be obtained and maintained by 500 ft. AGL.
- Cirrus pilot maintained directional control and centerline throughout approach and landing sequence.

50% Flap Landing

- Cirrus pilot described a scenario in which a 50% flap landing may be required.
- Cirrus pilot demonstrated the appropriate techniques to perform a 50% flap landing.
- > Cirrus pilot identified risks associated with 50% flap landing.
- Cirrus pilot made smooth, timely, and correct control application during roundout and touchdown.
- Cirrus pilot executed a go-around when a stabilized approach could not be obtained and maintained by 500 ft. AGL.
- Cirrus pilot maintained directional control and centerline throughout approach and landing sequence.

Zero Flap Landing

- Cirrus pilot explained a scenario in which a zero flap landing may be required.
- Cirrus pilot demonstrated the appropriate techniques to perform a zero flap landing.
- Cirrus pilot maintained recommended airspeeds while performing a zero flap landing.
- Cirrus pilot identified risks associated with a zero flap landing.
- Cirrus pilot made smooth, timely, and correct control application during roundout and touchdown.
- Cirrus pilot executed a go-around when a stabilized approach could not be obtained and maintained by 500 ft. AGL.
- Cirrus pilot maintained directional control and centerline throughout approach and landing sequence.

Power-off Landing

- Cirrus pilot demonstrated the appropriate techniques to perform a power-off landing.
- Cirrus pilot described the dangers of performing a power-off landing with zero flaps. (Not authorized per Flight Operations Manual).
- Cirrus pilot described when to add flaps and correct control applications during the power-off approach.

Go-Around

- Cirrus pilot recognized situations in which a go-around is the best course of action.
- Cirrus pilot executed a go-around when a stabilized approach could not be obtained by 500 ft AGL.
- Cirrus pilot demonstrated the appropriate techniques to perform a go-around.
- Cirrus pilot retracted the flaps at the appropriate time during the go-around.
- Cirrus pilot maintained directional control during the go-around.
- Cirrus pilot completed the appropriate checklist.

After Landing

- Cirrus pilot conducted the after-landing checklists when clear of the active runway.
- Cirrus pilot used the airport diagram on the MFD to aid in situational awareness while taxiing.

Shutdown

- Cirrus pilot completed the shutdown checklist.
- > Cirrus pilot secured the aircraft properly with chocks and/or the parking brake.

Post Flight Briefing

Post Flight Discussion and Critique

- Cirrus pilot discussed the decisions made and related them to an analysis of factual information, the aircraft capabilities, pilot experience and skill.
- Cirrus pilot discussed the process used to make good decisions.
- Cirrus pilot identified performance deficiencies encountered during the flight.
- Cirrus pilot discussed possible methods and alternatives for improvement on outcomes of the scenarios.

Maneuvers

Steep Turns

- Cirrus pilot executed proper collision avoidance procedures prior to conducting steep turns.
- Cirrus pilot used good decision-making skills to select a low-risk location to conduct the steep turns.
- Cirrus pilot used the recommended airspeed to conduct steep turns as stated in the FOM.
- Cirrus pilot demonstrated the appropriate techniques to perform steep turns.
- Cirrus pilot applied the appropriate corrections to maintain the steep turns within the standards for your certificate and ratings.

Slow Flight

- Cirrus pilot explained the relationship between pitch and power and how they relate to slow flight.
- Cirrus pilot applied slow flight principles to normal flight conditions.
- Cirrus pilot used good decision-making skills to select a low-risk location to conduct slow flight.
- Cirrus pilot demonstrated the appropriate techniques to perform steep turns.
- Cirrus pilot divided his/her attention between the airplane control and situational awareness, while maintaining the altitude assigned.

Power-off Stall

- Cirrus pilot used good decision making skills to select a low-risk location to conduct power-off stalls.
- Cirrus pilot demonstrated the appropriate techniques to perform power-off stalls.
- Cirrus pilot practiced various stages of the stall and recovered promptly allowing the aircraft to accelerate to the recommended airspeed.
- Cirrus pilot practiced recovering from the stall both at the point of recognition and at a full stall.
- Cirrus pilot practiced the stall in both a wings-level and a turning condition.

Power-on Stall

- Cirrus pilot used good decision making skills to select a low-risk location to conduct power-on stalls.
- Cirrus pilot demonstrated the appropriate techniques to perform power-on stalls.

- Cirrus pilot recognized various stages of the stall and recovered promptly allowing the aircraft to accelerate to the recommended airspeed.
- Cirrus pilot practiced recovering from the stall both at the point of recognition and at a full stall.
- Cirrus pilot practiced the stall in both a wings-level and a turning condition.

Autopilot Stall Recognition

- > Cirrus pilot described the limitations associated with the autopilot.
- Cirrus pilot practiced conducting autopilot stall recognition to recovery and was able to relate possible scenarios where this could happen.
- Cirrus pilot took appropriate action if the autopilot exceeded its airspeed limitation.

Note: For additional information on conducting safe autopilot stall recognition, see the Flight Operations Manual (FOM).

Unusual Attitudes

- Cirrus pilot demonstrated knowledge of flight situations that could lead to unusual attitudes.
- Cirrus pilot recovered from an unusual attitude properly and used the autopilot as appropriate to keep the aircraft stabilized.
- Cirrus pilot identified the possible alternative of using the CAPS with regards to an unusual attitude.

Abnormal / Emergency Procedures

PFD Failure

- Cirrus pilot determined reason for PFD failure.
- Upon detecting a PFD failure, Cirrus pilot took appropriate action to maintain aircraft control.
- Cirrus pilot used available resources to reduce additional workload.
- Cirrus pilot described autopilot operation as it related to the PFD failure.
- Cirrus pilot took appropriate action for the given situation.

AHRS Failure

- Cirrus pilot determined alternatives for an instrument approach with invalid attitude and heading information on the PFD.
- Cirrus pilot described how other equipment is affected with invalid attitude and heading information on the PFD.

Cirrus pilot used available resources to reduce additional workload.

Air Data Computer Failure

- Cirrus pilot determined that an air data malfunction had occurred.
- Cirrus pilot described how other equipment is affected with invalid air data information.
- Cirrus pilot used available resources to reduce additional workload.

MFD Failure

- Cirrus pilot determined how the loss of the MFD affects the operation of the aircraft and his/her personal minimums.
- Cirrus pilot used available resources to reduce additional workload.

GPS Failure

- Cirrus pilot determined how the loss of the GPS affects the operation of the aircraft and his/her personal minimums.
- Cirrus pilot described how other equipment is affected with the loss of GPS data.
- Cirrus pilot used available resources to reduce additional workload.

Autopilot Failure

- Cirrus pilot identified the risks associated with an autopilot failure.
- Cirrus pilot identified how an autopilot failure affects his/her personal minimums.
- Cirrus pilot used the checklist to appropriately troubleshoot the autopilot while dividing attention and controlling the aircraft manually.

Alternator Failure

- > Cirrus pilot identified indications of an alternator failure.
- Cirrus pilot identified equipment that will be affected with an alternator failure.
- Cirrus pilot described which systems were malfunctioning, properly troubleshot, and took appropriate action to reduce risk to an acceptable level.
- Cirrus pilot followed proper checklist procedures.
- Cirrus pilot shed electrical loads as necessary for the given situation.
- > Cirrus pilot used available resources to reduce additional workload.

Engine Malfunction

- Cirrus pilot can explain situations that may cause engine malfunctions.
- Cirrus pilot used checklists when time permitted.
- Cirrus pilot decided on the best course of action for the situation.

- Cirrus pilot recognized the need to divert and chose a suitable location, if the situation warranted.
- Cirrus pilot considered CAPS as an alternative solution to each potentially life threatening emergency.

Flap Malfunction

- Cirrus pilot recognized the flap malfunction.
- Cirrus pilot described how a flap malfunction will affect landing distance and why a diversion may be necessary.

Open Door

- Cirrus pilot identified an open door and reacted accordingly.
- Cirrus pilot divided his/her attention between the open door and controlling the airplane.

Cabin Fire

- Cirrus pilot described why an electrical fire can happen.
- Cirrus pilot responded to the urgency of the electrical scenario.
- Cirrus pilot conducted the proper checklist items for the flight situation.
- Cirrus pilot took necessary action to simulate eliminating fumes and smoke from the cockpit.
- Cirrus pilot made a decision to divert in a timely manner.

TAWS Escape

- Cirrus pilot performed scenarios that simulated TAWS warnings.
- Cirrus pilot identified audible warnings associated with the TAWS system.
- Cirrus pilot conducted appropriate maneuvers when a TAWS warning was simulated.

Inadvertent Ice Encounter

- Cirrus pilot discussed conditions that could contribute to the formation of ice.
- Cirrus pilot exited the simulated icing encounter in a manner that is consistent with FAA regulations and the POH.
- Cirrus pilot followed the proper checklist procedure as outlined in the POH and ice protection supplement.

Turbo System Malfunction

- Cirrus pilot promptly recognized loss of manifold pressure.
- Cirrus pilot completed the emergency checklist for an unexplained loss of manifold pressure.
- Cirrus pilot used available resources to reduce workload.

- Cirrus pilot discussed the difficulties of trying to distinguish between an induction system leak and an exhaust system leak.
- Cirrus pilot discussed the need to expedite the descent and land at the nearest airport.

Oxygen System Malfunction

- Cirrus pilot identified which systems were malfunctioning, properly troubleshot, and took action to reduce risk to an acceptable level.
- Cirrus pilot used available resources to reduce additional workload.
- Cirrus pilot discussed symptoms associated with hypoxia. Cirrus pilot also demonstrated the use of the pulse oximeter (if available) and discussed how this device can provide enhanced safety when operating at higher altitudes.
- Cirrus pilot followed proper procedures for an oxygen system malfunction.
- Cirrus pilot recognized oxygen was not flowing to the masks and initiated an emergency decent to a safe altitude. (Below 10,000 ft)
- Cirrus pilot discussed the risks associated with hypoxia and the need to get to a safe altitude.

Weather Diversion

- Cirrus pilot identified weather conditions that had not been forecasted.
- Cirrus pilot used all available resources to make a determination of whether to divert and took appropriate action to do so.
- Cirrus pilot used the autopilot to aid in reducing the additional workload.

Emergency Approach and Landing

- Cirrus pilot identified a proper landing location and the risks involved.
- Cirrus pilot effectively utilized the glide characteristics of the aircraft.
- Cirrus pilot considered CAPS as one alternative solution if no suitable landing area can be utilized.

Inadvertent IMC Encounter

- Cirrus pilot has identified methods to help prevent inadvertent flight into IMC conditions.
- Cirrus pilot acted appropriately to exit IMC conditions or get an IFR clearance.
- Cirrus pilot used the autopilot to aid in reducing the additional workload and to prevent a loss of control.

Ground Lesson 1

Lesson Objectives

- Establish instructor-student relationship and develop the safety culture expected throughout the training.
- Review course content, objectives, and completion standards.
- Review and evaluate pre-training material.
- Introduce topics that are specific to the model of aircraft being flown.
- Begin to define personal capabilities and weather minimums.
- Practice using risk management tools and techniques to reduce the overall risk associated with flying.
- Gain proficiency with the avionics of Cirrus aircraft using a cockpit procedures trainer, hot bench, or an aircraft on ground power.

Lesson Content

The instructor will begin the training by developing the instructor/learner relationship. The instructor should conduct a brief interview with the Cirrus pilot in order to determine prior flight experience, learning styles, and any additional goals of training beyond course objectives. The first meeting will create the safety culture expected throughout the training. This includes an assessment done by the Cirrus pilot to determine personal readiness to safely begin training.

The instructor will lead a discussion on FAA Industry Training Standards (FITS) and the concepts of a FITS accepted course. An overview of the course content will also be discussed at this time.

The Cirrus pilot should be given an opportunity to ask any questions regarding the pre-training material and from this, a discussion should develop to solidify and evaluate the Cirrus pilot's knowledge of Cirrus aircraft.

The instructor should spend an adequate amount of time with the Cirrus pilot in a cockpit procedures trainer, hot bench, or an aircraft on ground

power to ensure the Cirrus pilot has a foundation in the functions of the avionics that are installed in the aircraft. The time spent on the ground with the avionics will greatly improve the ability of the Cirrus pilot to concentrate on flying the aircraft and correlate avionics functions into scenarios that he or she will face while flying.

Task Checklist

Within the context of the training event, the instructor should reference the "List of Assessment Items" section to determine if the Cirrus pilot has met the required desired outcome for each task in the lesson.

Task	Desired Outcome		
Task	Describe	Explain	
Instructor-Student Relationship			
Course Briefing / Overview			
Review of Pre-Training Material			
Introduction to Avionics Using a Cockpit Procedures Trainer			

Lesson Completion Standards

This lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Controlling the Aircraft	
Equipment:	. Aircraft
Approximate Pre and Post Briefing:	.1.0 Hours
Approximate Flight Time:	. 1.5 Hours
Cross Country Legs Required:	. 0
Takeoffs/Landings Required:	.6

Lesson Objectives

Gain proficiency in the operational characteristics of the Cirrus aircraft during maneuvers, takeoffs, and landings.

Scenario

The purpose of this lesson is to introduce the Cirrus pilot to the operational characteristics of Cirrus aircraft. While the intent of this lesson is not cross country procedures, the instructor may choose to introduce these and other normal procedures while en-route to an airport in which the takeoffs and landings can be accomplished efficiently.

Emphasis should be placed on safely operating the airplane during steep turns, slow flight, and stalls, as well as during takeoffs and landings in various configurations.

This lesson is primarily maneuver-based in order to develop a solid foundation in "stick and rudder" skills prior to moving on to more advanced scenarios, but the instructor and Cirrus pilot should discuss circumstances in which to use each type of takeoff, landing, and maneuver. Emphasis should be placed on manually flying the aircraft rather than on autopilot use.

Task Checklist

Within the context of the training event, the instructor should reference the "List of Assessment Items" to determine if the Cirrus pilot has met the required Desired Outcome for each task in the lesson.

Preflight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Lesson Objectives		
Flight Overview		

Risk Management

Task	Desired Outcome	
Task	Practice	Manage/Decide
Manage Risk Before the Flight Using the 5P Checklist		
Manage Risk During the Flight Using the 5P Checklist		

Single Pilot Resource Management / Overall Flight

Task	Desired Outcome	
Task	Practice	Manage/Decide
Task Management		
Automation Management		
Avionics Usage		
Radio Communication		
Risk Management and ADM		
Situational Awareness		
CFIT Awareness		

Pre-Takeoff

Task	Desired Outcome	
Task	Practice	Perform
Preflight Preparation		
Engine Start		
Before Taxi		
Taxi		
Before Takeoff		

Takeoff and Climb

Task	Desired Outcome	
Task	Practice	Perform
Normal/Crosswind Takeoff		
Short-field Takeoff		
Soft-field Takeoff		
Climb		

Cruise

Task	Desired	Desired Outcome	
Task	Practice	Perform	
Initial Cruise			

Maneuvers

Task	Desired Outcome	
Task	Practice	Perform
Steep Turns		
Slow Flight		
Power-off Stalls (Imminent, Full, Level, Bank)		
Power-on Stalls (Imminent, Full, Level, Bank)		
Autopilot Stall Recognition		

Descent and Landing

Task	Desired Outcome	
Task	Practice	Perform
Descent and Arrival Procedures		
Traffic pattern		
Normal/Crosswind Landing		
Short-field Landing		
Soft-field Landing		
50% Flap Landing		
Zero Flap Landing		
Power-off Landing		
Go-around		
After Landing		
Shutdown		

Post Flight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Post Flight Discussion and Critique		

Lesson Completion Standards

This flight lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Note: The Cirrus pilot must be able to conduct the required maneuvers, takeoffs, and landings at the perform level prior to completing this lesson

Introduction to Normal Procedures a	and Automation
Equipment:	Aircraft or FTD
Approximate Pre and Post Briefing:	1.5 Hours
Approximate Flight Time:	2.0 Hours
Cross Country Legs Required:	3
Takeoffs/Landings Required:	3

Lesson Objectives

- Conduct normal operations for all phases of a VFR cross country flight while using automation.
- Develop proficiency using various levels of automation and learn to select the appropriate level of automation.

Scenario

The purpose of this lesson will be to introduce the Cirrus pilot to normal operations in a Cirrus aircraft while conducting a VFR cross country flight. The cross country will consist of 3 legs with a preferred length of 30 – 45 minutes per leg. This should provide for enough time for the Cirrus pilot to conduct normal operations such as checklists, enroute, and arrival procedures while having enough time to explore the equipment installed in the aircraft. The Cirrus pilot should use the autopilot for most of this lesson to gain proficiency in operating the various avionics in the aircraft.

- Leg 1 The Cirrus pilot should be introduced to the normal procedures of the Cirrus aircraft with focus on setting up avionics properly for a cross country flight. Focus on basic operations of the GPS/FMS and autopilot.
- Leg 2 The Cirrus pilot should continue to gain proficiency in normal operations. The instructor should introduce more complex functions of the GPS/FMS and autopilot.
- Leg 3 The Cirrus pilot should continue to gain proficiency in normal operations while using all forms of automation and all functions of the GPS/FMS. Weak areas of normal operations should be reviewed. If flying a turbo aircraft, this leg should be conducted at high altitude (above 12,500 ft).

At the completion of each leg, the Cirrus pilot will conduct a brief review of the decisions made on that leg and possible alternative solutions that could have been used to operate more effectively, efficiently and safely. During the lesson, the Cirrus pilot shall demonstrate the ability to control the aircraft manually and demonstrate automation management.

Scenario Summary

Leg 1 - Autopilot

- Basic functions of FMS/GPS
- Basic functions of autopilot

Leg 2 - Autopilot

- Advanced functions of FMS/GPS
- Advanced functions of autopilot

Leg 3 – Autopilot

- (T) High Altitude Leg (above 12,500 ft)
- All functions of FMS/GPS
- All functions of autopilot

Task Checklist

Within the context of the training event, the instructor should reference the "List of Assessment Items" to determine if the Cirrus pilot has met the required Desired Outcome for each task in the lesson.

Preflight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Lesson Objectives		
Flight Overview		

Risk Management

Task	Desired Outcome	
Task	Practice	Manage/Decide
Manage Risk Before the Flight Using the 5P Checklist		
Manage Risk During the Flight Using the 5P Checklist		

Single Pilot Resource Management / Overall Flight

Task	Desired Outcome	
Task	Practice	Manage/Decide
Task Management		
Automation Management		
Avionics Usage		
Radio Communication		
Risk Management and ADM		
Situational Awareness		
CFIT Awareness		

Pre-Takeoff

Task	Desired Outcome	
Task	Practice	Perform
Preflight Preparation		
Engine Start		
Before Taxi		
Taxi		
Before Takeoff		

Takeoff and Climb

Task	Desired Outcome	
Task	Practice	Perform
Appropriate Takeoff		
Climb		

Cruise

Task	Desired Outcome	
Task	Practice	Perform
Initial Cruise		
Enroute Cruise		

Descent and Landing

Task	Desired Outcome	
Task	Practice	Perform
Descent and Arrival Procedures		
Traffic pattern		
Appropriate Landing		
Go-around		
After Landing		
Shutdown		

Post Flight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Post Flight Discussion and Critique		

Lesson Completion Standards

This flight lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Application of Known Procedures	
Equipment:	Aircraft or FTD (FTD Preferred)
Approximate Pre and Post Briefing:	1.0 Hours
Approximate Flight Time:	2.0 Hours
Cross Country Legs Required:	3
Takeoffs/Landings Required:	3

Lesson Objectives

- Practice procedures that are known from previously flown aircraft and apply them to Cirrus aircraft.
- Use the Cirrus Airframe Parachute System (CAPS) when presented with an applicable scenario and it is appropriate.
- Practice using the autopilot to aid in escaping from an inadvertent encounter with Instrument Meteorological Conditions (IMC).

Scenario

The purpose of this lesson is to apply procedures that are known in the Cirrus pilot's previously flown aircraft to operations in Cirrus aircraft. The tasks of this lesson are best accomplished in a Flight Training Device (FTD) to achieve the greatest amount of learning, but the lesson can also be conducted in an aircraft.

Leg 1—The flight instructor should simulate subtle indications that may indicate an engine abnormality. The Cirrus pilot should take corrective action and make the determination of whether to continue the flight or to divert to a nearby airport. Eventually this should lead to a simulated engine malfunction that would lead to a simulated emergency landing or a simulated CAPS deployment if no suitable landing area is available.

Leg 2 – The instructor should present a scenario in which the weather ahead is progressively deteriorating, and will most likely result in IMC conditions. Once in simulated IMC, the Cirrus pilot should continue corrective action, using all available resources, to exit the IMC conditions When the Cirrus pilot has shown an initial safe respond to the simulated IMC scenario, the instructor should enhance the simulated IMC scenario by introducing a TAWS warning alert and inadvertent flight into icing conditions at the time/location deemed appropriate by the flight instructor. The Cirrus pilot should take appropriate evasive action to avoid terrain and then either continue the flight to VMC or divert to

another airport to exit IMC and icing conditions. The Cirrus pilot should understand the importance of using the autopilot during this scenario to assist in preventing an unusual attitude. If the Cirrus pilot does enter an unusual attitude, emphasis should be placed on proper recovery techniques including the proper use of the autopilot.

Leg 3 – The Cirrus pilot should depart on a cross country flight while hand flying the aircraft. During the flight, the instructor should simulate a failure of the Air Data Computer which would affect the pitot/static instruments. The Cirrus pilot should take the appropriate corrective action and make the determination of whether to continue the flight or divert to a nearby airport.

At the completion of each leg, the Cirrus pilot will conduct a brief review of the decisions made on that leg and possible alternative solutions that could have been used to operate more effectively, efficiently and safely. During the lesson, the Cirrus pilot shall demonstrate the ability to control the aircraft manually and demonstrate automation management.

Scenario Summary

Leg 1 - Hand Fly

Engine Malfunction

Leg 2 - Autopilot

- Inadvertent IMC
- TAWS Escape
- Inadvertent lcing
- Unusual Attitudes

Leg 3 – Autopilot

Air Data Failure

Task Checklist

Within the context of the training event, the instructor should reference the "List of Assessment Items" to determine if the Cirrus pilot has met the required Desired Outcome for each task in the lesson.

Preflight Briefing

Task	Desired Outcome	
lask	Describe	Explain
Lesson Objectives		
Flight Overview		

Risk Management

Task	Desired Outcome	
Task	Practice	Manage/Decide
Manage Risk Before the Flight Using the 5P Checklist		
Manage Risk During the Flight Using the 5P Checklist		

Single Pilot Resource Management

Task	Desired Outcome	
Task	Practice	Manage/Decide
Task Management		
Automation Management		
Avionics Usage		
Radio Communication		
Risk Management and ADM		
Situational Awareness		
CFIT Awareness		

Pre-Takeoff

Task	Desired	Desired Outcome	
Idsk	Practice	Perform	
Preflight Preparation			
Engine Start			
Before Taxi			
Taxi			
Before Takeoff			

Takeoff and Climb

Task	Desired Outcome	
Task	Practice	Perform
Normal/Crosswind Takeoff		
Climb		

Cruise

Task	Desired Outcome	
Task	Practice	Perform
Initial Cruise		
Enroute Cruise		

Instrument Maneuvers

Task	Desired Outcome	
Task	Practice	Perform

Unusual Attitudes		
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Abnormal / Emergency Procedures

Task	Desired Outcome	
Task	Practice	Manage/Decide
Air Data Computer Failure		
Engine Malfunction		
TAWS Escape		
Weather Diversion		
Inadvertent IMC Encounter		
Inadvertent Ice Encounter		

Descent and Landing

Task	Desired Outcome	
Task	Practice	Perform
Descent and Arrival Procedures		
Traffic pattern		
Normal/Crosswind Landing		
Power-off Landing		
After Landing		
Shutdown		

Post Flight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Post Flight Discussion and Critique		

Lesson Completion Standards

This flight lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Avionics Malfunctions	
Equipment:	Aircraft or FTD
Approximate Pre and Post Briefing: .	1.0 Hours
Approximate Flight Time:	2.5 Hours
Cross Country Legs Required:	3
Takeoffs/Landings Required:	3

Lesson Objectives

Practice managing malfunctions of the avionics installed in the aircraft while hand flying and using automation.

Scenario

This lesson will focus on malfunctions of the avionics installed in the aircraft such as the PFD, MFD, GPS receiver, and the autopilot. The lesson will be in a 3-leg cross country format with enough time on each leg for the Cirrus pilot to conduct normal procedures and to manage any scenario presented by the instructor. The Cirrus pilot will practice a combination of hand flying and using the autopilot to gain proficiency in both operations.

Leg 1 – During cruise flight the instructor should fail the PFD. The Cirrus pilot should carry out the appropriate action for this failure. Emphasis should be placed on maintaining aircraft control and using the autopilot to ease workload.

Leg 2 – While in cruise flight, the instructor should introduce an AHRS failure. The Cirrus pilot should take the appropriate corrective action and make the determination of whether to continue the flight or divert to another airport. Once this determination is made, the instructor should introduce an autopilot failure. The Cirrus pilot should now hand fly the aircraft and again decide whether to continue to the destination or to divert, taking into account personal minimums, pilot capability, and workload.

Leg 3 – The Cirrus pilot should continue to hand fly during this leg. The instructor should introduce a GPS malfunction during cruise flight. The Cirrus pilot should make a determination as to the extent that the airplane's and the pilot's capability has been degraded. Pilots will be restricted to a combination of pilotage and radio navigation. The Cirrus pilot should make a determination of whether to continue the flight or

divert to a nearby airport. If flying a turbo aircraft, this leg should be conducted at high altitude (above 12,500 ft).

At the completion of each leg, the Cirrus pilot will conduct a brief review of the decisions made on that leg and possible alternative solutions that could have been used to operate more effectively, efficiently and safely. During the lesson, the Cirrus pilot shall demonstrate the ability to control the aircraft manually and demonstrate automation management.

Scenario Summary

Leg 1 – Autopilot

PFD Failure

Leg 2 - Hand Fly

- AHRS Failure
- Autopilot Failure

Leg 3 – Hand Fly

- ➤ (T) High Altitude Leg (above 12,500 ft)
- GPS Malfunction

Task Checklist

Within the context of the training event, the instructor should reference the "List of Assessment Items" to determine if the Cirrus pilot has met the required Desired Outcome for each task in the lesson.

Preflight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Lesson Objectives		
Flight Overview		

Risk Management

Task	Desired Outcome	
Idsk	Practice	Manage/Decide
Manage Risk Before the Flight Using the 5P Checklist		
Manage Risk During the Flight Using the 5P Checklist		

Single Pilot Resource Management

Task	Desired Outcome	
Task	Practice	Manage/Decide
Task Management		
Automation Management		
Avionics Usage		
Radio Communication		
Risk Management and ADM		
Situational Awareness		
CFIT Awareness		

Pre-Takeoff

Task	Desired Outcome	
	Practice	Perform
Preflight Preparation		
Engine Start		
Before Taxi		
Taxi		
Before Takeoff		

Takeoff and Climb

Task	Desired Outcome	
Task	Practice	Perform
Appropriate Takeoff		
Climb		

Cruise

Task	Desired Outcome	
Task	Practice	Perform
Initial Cruise		
Enroute Cruise		

Abnormal / Emergency Procedures

Task	Desired Outcome	
Task	Practice	Manage/Decide
PFD Failure		
AHRS Failure		
GPS Malfunction		
Autopilot Failure		

Descent and Landing

Task	Desired Outcome	
ldSK	Practice	Perform
Descent and Arrival Procedures		
Traffic pattern		
Appropriate Landing		
After Landing		
Shutdown		

Post Flight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Post Flight Discussion and Critique		

Lesson Completion Standards

This flight lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Systems Malfunctions	
Equipment:	Aircraft or FTD
Approximate Pre and Post Briefing: .	1.0 Hours
Approximate Flight Time:	2.5 Hours
Cross Country Legs Required:	3
Takeoffs/Landings Required:	3

Lesson Objectives

Practice managing malfunctions of critical systems of the aircraft while hand flying and using the autopilot.

Scenario

This lesson will focus on malfunctions of critical systems of the aircraft. The lesson will be in a 3-leg cross country format with enough time on each leg for the Cirrus pilot to conduct normal procedures and to manage any scenario presented by the instructor. The Cirrus pilot will practice a combination of hand flying and using the autopilot to gain proficiency in both operations.

Leg 1 – During cruise flight, the instructor should introduce an alternator 1 failure. The Cirrus pilot should take the appropriate action and make a determination of whether to continue the flight or divert to another airport. The pilot should hand fly this leg to gain proficiency controlling the aircraft manually with an increased workload.

Leg 2 – The content of this leg will be dependent on the specific model of aircraft used for training. If using a turbo aircraft, this leg should be conducted at an altitude above 12,500 ft, the instructor should simulate becoming hypoxic. The Cirrus pilot should recognize the instructor's condition and the instructor pilot will inform the Cirrus pilot of the simulated malfunction with the oxygen system. The Cirrus pilot should take corrective action to resolve the oxygen system failure or descend to an altitude that does not require oxygen. Once this situation has been safely resolved, the instructor should simulate inadvertent loss of manifold pressure (turbo AC). Corrective action should be to divert to the nearest airport. The Cirrus pilot may be allowed to use the autopilot during this leg.

If the aircraft is normally aspirated, the instructor should simulate a governor failure. Corrective action should be to divert to the nearest

airport. The Cirrus pilot may be allowed to use the autopilot during this leg.

Leg 3 – The content of this leg will be at the instructor's and Cirrus pilot's discretion. Any areas of operation which the instructor and/or Cirrus pilot would like to review prior to the final flight should be done on this leg.

At the completion of each leg, the Cirrus pilot will conduct a brief review of the decisions made on that leg and possible alternative solutions that could have been used to operate more effectively, efficiently and safely. During the lesson, the Cirrus pilot shall demonstrate the ability to control the aircraft manually and demonstrate automation management.

Scenario Summary

Leg 1 - Hand Fly

Alternator 1 failure

Leg 2 - Autopilot

- Engine Malfunction
 - Hypoxia / Oxygen System Malfunction
 - (T) Turbo System Malfunction

Or

(Normally Aspirated) Governor Failure

Leg 3 – Autopilot

Instructor Discretion

Task Checklist

Within the context of the training event, the instructor should reference the "List of Assessment Items" to determine if the Cirrus pilot has met the required Desired Outcome for each task in the lesson.

Preflight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Lesson Objectives		
Flight Overview		

Risk Management

Task	Desired	l Outcome
Task	Practice	Manage/Decide
Manage Risk Before the Flight Using the 5P Checklist		

Using the 5P Checklist

Single Pilot Resource Management / Overall Flight

Task	Desired	Outcome
Task	Practice	Manage/Decide
Task Management		
Automation Management		
Avionics Usage		
Radio Communication		
Risk Management and ADM		
Situational Awareness		
CFIT Awareness		

Pre-Takeoff

Task	Desired Outcome	
Task	Practice	Perform
Preflight Preparation		
Engine Start		
Before Taxi		
Taxi		
Before Takeoff		

Takeoff and Climb

Task	Desired	Desired Outcome	
Task	Practice	Perform	
Appropriate Takeoff			
Climb			

Cruise

Task	Desired Outcome	
Task	Practice	Perform
Initial Cruise		
Enroute Cruise		

Abnormal / Emergency Procedures

Task	Desired Outcome	
Task	Practice	Manage/Decide
PFD Failure		
AHRS Failure		
Air Data Computer Failure		
MFD Failure		
GPS Failure		

Autopilot Failure	
Alternator Failure	
Engine Malfunction	
Flap Malfunction	
Open Door	
Cabin Fire	
TAWS Escape	
Weather Diversion	
Emergency Approach and Landing	
Inadvertent IMC Encounter	
Inadvertent Ice Encounter	
Turbo System Malfunction (T)	
Oxygen System Malfunction	

Descent and Landing

· · · · · · · · · · · · · · · · · · ·		
Task	Desired Outcome	
Task	Practice	Perform
Descent and Arrival Procedures		
Traffic pattern		
Appropriate Landing		
After Landing		
Shutdown		

Post Flight Briefing

Task	Desired Outcome	
lask	Describe	Explain
Post Flight Discussion and Critique		

Lesson Completion Standards

This flight lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Final Evaluation	
Equipment:	Aircraft
Approximate Pre and Post Briefing:	1.0 Hours
Approximate Flight Time:	2.0 Hours
Cross Country Legs Required:	2
Takeoffs/Landings Required:	4

Lesson Objectives

- Demonstrate a manage/decide level of competency for the entire flight.
- Demonstrate judgment, aeronautical decision making, and single pilot resource management skills necessary to effectively, efficiently, and safely operate the Cirrus aircraft.

Scenario

This lesson is the final evaluation flight for the course to determine whether the Cirrus pilot can safely operate the aircraft in single pilot operations. The lesson will be in a 2-leg cross country format with enough time on each leg for the Cirrus pilot to conduct normal procedures and to manage any scenario presented by the instructor. The Cirrus pilot will practice a combination of hand flying and using the autopilot to gain proficiency in both operations.

Leg 1 – The instructor should plan an avionics malfunction during cruise flight. The Cirrus pilot should take the appropriate action to resolve the situation. The instructor may combine a weather diversion into the scenario to further evaluate the Cirrus pilot's correlation level of learning.

Leg 2 – The instructor should present an electrical malfunction during cruise flight. The Cirrus pilot should take the appropriate action to resolve the situation. The instructor may combine a weather diversion into the scenario to further evaluate the Cirrus pilot's correlation level of learning.

At the completion of each leg, the Cirrus pilot will conduct a brief review of the decisions made on that leg and possible alternative solutions that could have been used to operate more effectively, efficiently and safely. During the lesson, the Cirrus pilot shall demonstrate the ability to control the aircraft manually and demonstrate automation management.

Scenario Summary

Leg 1 – Autopilot Usage

- Avionics Malfunction
- Weather Diversion (one leg only)

Leg 2 - Hand Fly

- Electrical Malfunction
- Weather Diversion (one leg only)

Task Checklist

Within the context of the training event, the instructor should reference the "List of Assessment Items" to determine if the Cirrus pilot has met the required Desired Outcome for each task in the lesson.

Preflight Briefing

Task	Desired Outcome	
Task	Describe	Explain
Lesson Objectives		
Flight Overview		

Risk Management

Task	Desired Outcome	
Task	Practice	Manage/Decide
Manage Risk Before the Flight Using the 5P Checklist		
Manage Risk During the Flight Using the 5P Checklist		

Single Pilot Resource Management

Task	Desired Outcome	
Task	Practice	Manage/Decide
Task Management		
Automation Management		
Avionics Usage		
Radio Communication		
Risk Management and ADM		
Situational Awareness		

Pre-Takeoff

Task	Desired	Desired Outcome	
	Practice	Perform	
Preflight Preparation			
Engine Start			
Before Taxi			
Taxi			
Before Takeoff			

Takeoff and Climb

Task	Desired Outcome	
Task	Practice	Perform
Normal/Crosswind Takeoff		
Short-field Takeoff		
Soft-field Takeoff		
Climb		

Cruise

Task	Desired Outcome	
Task	Practice	Perform
Initial Cruise		
Enroute Cruise		

Abnormal / Emergency Procedures

Task	Desired	d Outcome
Task	Practice	Manage/Decide
PFD Failure		
Alternator Failure		
Weather Diversion		

Descent and Landing

Task	Desired	Outcome
Task	Practice	Perform
Descent and Arrival Procedures		
Traffic pattern		
Normal/Crosswind Landing		
Short-field Landing		
Soft-field Landing		
50% Flap Landing		
Zero Flap Landing		
Power-off Landing		
Go-around		

Cirrus Pilot

VFR Transition Training

After Landing	
Shutdown	

Post Flight Briefing

Task	Desired	Outcome
lask	Describe	Explain
Post Flight Discussion and Critique		

Lesson Completion Standards

This flight lesson will be complete when the Cirrus pilot satisfactorily demonstrates ADM and critical thinking skills by completing the required tasks using the assessment criteria within this course.

Biennial Flight Review

Optional

Equipment: Aircraft

Approximate Time: 4.0 Hours

Lesson Objectives

Complete items required by FAR 61.56 to satisfy requirements of a Biennial Flight Review

Note: A Biennial Flight Review is not a part of the transition training, but is a requirement of the Federal Aviation Regulations which should be accomplished in accordance with the guidelines set forth by FAR 61.56 and the supporting advisory circular (AC 61-98A).

Note: BFR training can only be conducted after satisfactory completion of the transition course. An additional half-day of training may be required to cover information required by the regulations.

Task Checklist

Ground Items Required by FAR 61.56 and Advisory Circular

Task	Desired	Outcome
Task	Describe	Explain
BFR Ground Segment		

Flight Items Required by FAR 61.56 and Advisory Circular

Task	Desired	Outcome
lask	Practice	Perform
BFR Flight Segment		

Completion Standards

The Biennial Flight Review will be complete when the Cirrus pilot has satisfactorily demonstrated to a Perform level those maneuvers and procedures that, at the discretion of the person giving the review, are necessary for the Cirrus pilot to safely exercise the privileges of the pilot certificate he/she holds and has been given the appropriate logbook endorsement.

Course Sum	mary: VFR	Transition Tra	ining	
Customer:				
Aircraft Type	e:			
Aircraft Reg	istration:			
_	_			
Date:	_			
Flight Time	Ground Time	FTD/Flight Time	Ground Time	e Landings
Summary				
Course Sum				
	icates items is			
C I	cates item is in	complete or not	attempted	
	ompletion Cer	tificate Awarded		
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	igh Performan	ce Logbook End	orsement	
	iennial Flight F	•	Ordernern	
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		avionics, the certifica e only way to be pro		
I have reviewed statements.	and accept the co	ourse summary and a	agree with the ab	ove
Customer Signa	ture Instruc	tor Signature	Date	
Jacksmor Olyna		.c. Oignataro	Date	

Acknowledgments for Course Development

This training guide has been developed through a collaborative effort between Cirrus Design, University of North Dakota Aerospace Foundation (UNDAF), and the FAA/Industry Training Standards (FITS) research team.







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and maintain a high level of flying proficiency in order to minimize the risks associated with flight. Flying within the Envelope of Safety will not guarantee a safe flight. Pilots must comply with FARs, exercise sound judgment

, çı	Minimum runway is 2.5 times the expected T-O or LND distance	Mini time or L		ions is prohibited.	ICING CONDITIONS: Flight into known icing conditions is prohibited.	TIONS: Flight int	ICING CONDI
at nd	35 knots total sustained 20 knot crosswind or max damonstrated	NIGHT	Operate at or Above 200' Ceilings 1/2 SM Visibility	Operate at or Above 500' Ceilings 1 SM Visibility	Operate at or Above 200' Ceilings 1/2 SM Visibility	Operate at or Above 500' Ceilings 1 SM Visibility	Note: File IFR anytime the weather is below 3000/5 SM
nd d	35 knots total sustained 20 knot crosswind or max demonstrated	DAY	Greater than 100 hours in Type	Less than 100 hours in Type	Greater than 100 hours in Type	Less than 100 hours in Type	INSTRUMENT RATED [PROFICIENT WITH DEMONSTRATED ABILITY TO CAT 1 MINIMUMS
<u>a</u>	25 knots total sustained 15 knot crosswind	NIGHT	Operate at or Above 600' Ceilings 2 SM Visibility	Operate at or Above 1000' Ceilings 3 SM Visibility	Operate at or Above 500' Ceilings 1 SM Visibility	Operate at or Above 1000' Ceilings 3 SM Visibility	Note: File IFR anytime the weather is below 3000// 5 SM
ъ.	30 knots total sustained 15 knot crosswind	DAY	Greater than 100 hours in Type	Less than 100 hours in Type	Greater than 100 hours in Type	Less than 100 hours in Type	INSTRUMENT RATED
nd .	25 knots total sustained 10 knot crosswind	NIGHT	Operate at or Above 5000' Ceilings 10 SM Visibility	Operate at or Abo 5000' Ceilings 10 SM Visibility	Operate at or Above 3000' Ceilings 5 SM Visibility	Operate a 3000' C 5 SM \	INSTRUMENT RATED [NON-PROFICIENT]
PL	25 knots total sustained 15 knot crosswind	DAY	* *	* *	3		NON-INSTRUMENT RATED
6	MAX WIND: TO&LIND	MA	NIGHT	NIG	DAY	D	QUALIFICATION

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