

NORMAL OPERATIONS



Aircraft Weight and Balance

- KNOWLEDGE
 - Know and comply with the designed weight limitations applicable to the Cirrus.
- RISK
 - Assess and mitigate risks associated with the improper loading of the Cirrus.
- SKILL
 - Calculate weight and balance and identify and correct out-of-CG loading conditions.

Aircraft Performance

- KNOWLEDGE
 - Understand the factors affecting performance, such as: atmospheric conditions, pilot technique, airplane configuration, airport environment, and weight and balance.
 - Understand the potential difference between calculated and actual performance.
- SKILL
 - Accurately determine the expected performance of the Cirrus by using the appropriate charts.

Preflight Assessment

- KNOWLEDGE
 - Describe which items must be inspected during preflight, why each item is checked, how to identify possible defects, and any applicable regulations.
 - Recognize and understand environmental factors affecting the flight, such as: weather, terrain, route, and obstructions.
 - Define your personal minimums and explain how they are applied to the flight.
- SKILL
 - Confirm that the Cirrus is safe for flight using the appropriate checklist.

Engine Start

- KNOWLEDGE
 - Describe starting the Cirrus under varying conditions, such as cold start and hot start.
 - Identify the symptoms of, and describe the procedure for, starting a flooded engine.
- RISK
 - Demonstrate that you can assess and mitigate the risks associated with the propeller and the propeller safety area.

- SKILL
 - Position the Cirrus properly for a safe start using the appropriate checklist.
 - Complete the appropriate checklist.

Taxiing

- KNOWLEDGE
 - Identify and understand airport markings, signs, and lights.
 - Identify and describe various indicators for estimating wind direction and velocity.
- RISK
 - Assess and mitigate risks associated with distractions during taxi and ground operations.
 - Assess and mitigate risks associated with taxi route confirmation bias.
 - Assess and mitigate risks associated with last minute taxi route or departure runway changes.
- SKILL
 - Communicate with, and follow instructions from, air traffic control (if applicable).
 - Confirm proper brake operation by completing a brake check immediately after beginning movement.
 - Navigate the airport and maintain situational awareness by using an airport diagram or taxi chart.
 - Maintain positive control of the Cirrus during all ground operations.

Before Takeoff Check

- KNOWLEDGE
 - Understand and describe the pre-takeoff checklist, why each item is checked, and how to detect possible malfunctions and abnormalities.
- RISK
 - Identify the potential for and describe/execute strategies to mitigate the risks associated with wake turbulence.
- SKILL
 - Position the Cirrus considering wind, other aircraft, and hazards.
 - Complete the appropriate checklist.
 - Divide attention both inside and outside of the Cirrus.
 - Conduct a takeoff briefing including review takeoff performance and CAPS strategy.

Normal Takeoff

- KNOWLEDGE
 - Understand the effects of atmospheric conditions on takeoff and climb performance.
 - Understand VX and VY.

- RISK
 - Able to select the best runway based on pilot ability, expected performance, airplane limitations, available distance, and wind.
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, various runway surfaces and conditions.
 - Establish a strategy for CAPS deployment during takeoff and climb.
 - Establish a plan for a rejected takeoff or engine failure during the takeoff or climb phase.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Confirm takeoff power and proper engine and flight instrument indications prior to rotation.
 - Rotate at POH recommended airspeed.
 - Maintain **airspeed +10/-5 kts.**
 - Retract flaps after establishing a positive rate of climb, clear of terrain, and above flap retraction airspeed.
 - Maintain directional control and proper wind-drift correction throughout takeoff and climb.

Climb

- KNOWLEDGE
 - Understand the relationship of power setting and airspeed and the impact on engine cooling.
 - Understand VX and VY.
 - Understand when and why to use a cruise climb airspeed.
- RISK
 - Identify collision hazards during low altitude maneuvering and climb.
- SKILL
 - Maintain **airspeed +10/-5 kts.**
 - Maintain directional control and proper wind-drift correction.
 - Complete the appropriate checklist.
 - Use proper engine cooling techniques.

Cruise

- KNOWLEDGE
 - Understand how to select an appropriate route and altitude for the flight.
 - Understand cruise leaning methods.
- RISK
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude +/-200 ft and heading +/-15°.**
 - Complete the appropriate checklist.
 - Use the appropriate mixture leaning procedure as described in the POH.

Descent

- KNOWLEDGE
 - Understand how to select the desired landing runway by considering winds, performance, and other traffic in the area.
 - Understand and explain right-of-way rules.
- RISK
 - Identify collision hazards during descent and low altitude maneuvering.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude +/-200 ft and assigned heading +/-15°**.
 - Maintain proper airspeed for environmental conditions.
 - Maintain situational awareness and prepare for arrival into the terminal area.
 - Complete the appropriate checklist.

Traffic Pattern

- KNOWLEDGE
 - Understand and explain right-of-way rules.
 - Understand towered versus non-towered airport operations.
- RISK
 - Identify the potential for and describe/execute strategies to mitigate the risks associated with wake turbulence.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain traffic pattern **altitude +/-100 ft and airspeed +/-10 kts**.
 - Follow recommended traffic pattern procedures and maintain situational awareness and proper spacing from other aircraft in the traffic pattern.
 - Correct for wind drift to maintain the proper ground track.

Normal Landing

- KNOWLEDGE
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand the elements of a stabilized approach.
 - Understand wind correction techniques.
- RISK
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, various runway surfaces and conditions.
 - Assess and mitigate the risks associated with land and hold short operations (LAHSO).
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain approach **airspeed, +10/-5 knots**, or as recommended for gust velocity.

- Complete the appropriate checklists and establish the proper configuration to maintain a stabilized approach.
- Align with the correct/assigned runway.
- Maintain directional control and proper wind-drift correction throughout the landing and roll-out.
- Touch down **within 400 feet** beyond a specified point.
- Touch down slightly above stall.
- Touch down with no appreciable drift.
- Touch down with the longitudinal axis aligned with the centerline.
- Execute a timely go-around if an unsafe approach or landing may result.

Go-Around/Rejected Landing

- KNOWLEDGE
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand the elements of a stabilized approach.
 - Understand wind correction techniques.
- RISK
 - Identify the risks associated with a delayed recognition of the need for a go-around/rejected landing.
 - Identify the risks associated with reduced performance during a low altitude go-around/rejected landing.
 - Understand the risks associated with improper power application and/or configuration during a go-around/rejected landing.
 - Assess and mitigate the risks associated with stalls, spins, and CFIT.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Transition to climb pitch attitude for VX or VY, maintain **airspeed +10/-5 kts**.
 - Apply takeoff power immediately.
 - Retract flaps after reaching positive rate of climb, clear of terrain/obstacles, and flaps retract speed.
 - Maintain directional control and proper wind-drift correction.

After Landing, Parking and Securing

- KNOWLEDGE
 - Understand how to document in-flight and postflight discrepancies.
- RISK
 - Demonstrate the ability prioritize tasks and minimize distractions.
 - Assess and mitigate risks associated with taxi route confirmation bias.
 - Assess and mitigate risks associated with disembarking passengers.
- SKILL
 - Safely and securely park your Cirrus and complete a thorough post-flight using the appropriate checklist.

MANEUVERS



Steep Turns

- KNOWLEDGE
 - Understand the aerodynamics associated with steep turns.
- RISK
 - Divide attention between aircraft control and orientation.
 - Demonstrate the ability to prioritize tasks and minimize distractions.
 - Identify and mitigate the risks associated with uncoordinated flight.
- SKILL
 - Maintain **altitude +/-100 ft; airspeed +/-10 kts; bank +/-5°**; and rollout **heading +/-10°** from entry heading.
 - Establish recommended airspeed.
 - Roll into a coordinated 360° steep turn with approximately a 45° (Private Pilot) or 50° (Commercial Pilot) bank.

Slow Flight

- KNOWLEDGE
 - Understand the aerodynamics associated with maneuvering during slow flight.
- RISK
 - Identify risks associated with inadvertent slow flight.
 - Identify risks associated with the range and limitations of stall warning system.
 - Identify risks associated with uncoordinated flight.
 - Assess and mitigate risks associated with atmospheric and environmental conditions such as turbulence, microbursts, and high-density altitudes.
 - Divide attention between aircraft control and orientation.
- SKILL
 - Maintain **altitude +/-100 ft; airspeed +10/-0 kts; bank +/-10°; and heading +/-10°**.
 - Select an entry altitude that allows the maneuver to be completed **no lower than 1,500 feet AGL**.
 - Accomplish coordinated straight-and-level flight, turns, climbs, and descents with flap configurations specified by the instructor.
 - Establish and maintain an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning.

Power-Off Stall

- KNOWLEDGE
 - Understand aerodynamics associated with stalls in various configurations.
 - Understand the stall characteristics of your Cirrus and how to identify impending and full stall indications.

- Understand the fundamentals of stall recovery.
- RISK
 - Identify the factors and situations that can lead to an inadvertent power-off stall, spin, and loss of control.
 - Identify risks associated to the range and limitations of stall warning system.
 - Identify the risks associated with not recognizing and recovering at the first indication of stall.
 - Identify the risks associated with using an improper stall recovery procedure.
 - Assess and mitigate the risks associated with secondary stalls, accelerated stalls, and cross-controlled stalls.
 - Assess and mitigate risks associated with atmospheric and environmental conditions such as turbulence, microbursts, and high-density altitudes.
 - Divide attention between aircraft control and orientation.
- SKILL
 - Maintain **bank +/-10°**; if turning, and **heading +/-10°**; if in straight flight.
 - Select an entry altitude that allows the maneuver to be completed **no lower than 1,500 feet AGL**.
 - Acknowledge cues of the impending stall and then recover promptly after an impending or full stall has occurred.
 - Execute a stall recovery in accordance with procedures set forth in the POH.
 - Return to the altitude, heading, and airspeed specified by the instructor/evaluator.

Power-On Stall

- KNOWLEDGE
 - Understand aerodynamics associated with stalls in various configurations.
 - Understand the stall characteristics of your Cirrus and how to identify impending and full stall indications.
 - Understand the fundamentals of stall recovery.
- RISK
 - Identify the factors and situations that can lead to an inadvertent power-on stall, spin, and loss of control.
 - Identify risks associated to the range and limitations of stall warning system.
 - Identify the risks associated with not recognizing and recovering at the first indication of stall.
 - Identify the risks associated with using an improper stall recovery procedure.
 - Assess and mitigate the risks associated with secondary stalls, accelerated stalls, and cross-controlled stalls.
 - Assess and mitigate risks associated with atmospheric and environmental conditions such as turbulence, microbursts, and high-density altitudes.
 - Divide attention between aircraft control and orientation.
- SKILL
 - Maintain **bank +/-10°**; if turning, and **heading +/-10°**; if in straight flight.
 - Select an entry altitude that allows the maneuver to be completed **no lower than 1,500 feet AGL**.

- Acknowledge the cues of the impending stall and then recover promptly after an impending or full stall occurs.
- Execute a stall recovery in accordance with procedures set forth in the POH.
- Return to the altitude, heading, and airspeed specified by the instructor/evaluator.

Autopilot Stall

- KNOWLEDGE
 - Understand the features specific to the avionics and autopilot system installed.
 - Understand the stall characteristics of your Cirrus and how to identify impending and full stall indications.
 - Understand factors and situations that lead to an autopilot stall.
 - Understand the fundamentals of stall recovery.
- RISK
 - Identify the factors and situations that can lead to an inadvertent stall, spin, and loss of control.
 - Identify risks associated to the range and limitations of stall warning system.
 - Identify the risks associated with not recognizing and recovering at the first indication of stall.
 - Identify the risks associated with using an improper stall recovery procedure.
 - Assess and mitigate the risks associated with secondary stalls, accelerated stalls, and cross-controlled stalls.
 - Assess and mitigate risks associated with atmospheric and environmental conditions such as turbulence, microbursts, and high-density altitudes.
 - Divide attention between aircraft control and orientation.
- SKILL
 - Maintain **heading $\pm 10^\circ$** .
 - Select an entry altitude that allows the maneuver to be completed **no lower than 1,500 feet AGL**.
 - Acknowledge the cues of the impending stall and then recover promptly after an impending or full stall occurs.
 - Execute a stall recovery in accordance with procedures set forth in the POH.
 - Return to the altitude, heading, and airspeed specified by the instructor/evaluator.

INSTRUMENT APPROACHES



Instrument Flight Deck Check

- KNOWLEDGE
 - Understand the purpose of performing an instrument flight deck check and how to detect possible defects.
 - Understand airworthiness requirements for IFR flight, to include airplane inspection requirements and required equipment.

- Understand the procedures, documentation, and limitations of flying with inoperative equipment.
- RISK
 - Assess and mitigate risks associated with operating with inoperative equipment.
 - Identify risks associated with operating with outdated navigation publications or databases.
- SKILL
 - Demonstrate the ability to perform the preflight inspection using the appropriate checklist, ensuring the Cirrus is in a condition for safe instrument flight.

Unusual Attitudes

- KNOWLEDGE
 - Understand the procedure for recovering from unusual attitudes.
 - Understand situations and factors that contribute to unusual attitudes.
- RISK
 - Identify risks associated with situations that lead to loss of control or unusual flight attitudes.
 - Identify risks associated with not recognizing or following the proper recovery procedure for unusual flight attitudes.
- SKILL
 - Cross-check and identify an unusual attitude and apply the proper recovery.
 - Use smooth, correct, and coordinated control inputs to recover while staying within the airplane's limitations and flight parameters.

Basic Instrument Maneuvers (VFR Courses)

- KNOWLEDGE
 - Understand the function and operation of the flight instruments.
 - Understand proper instrument cross-check techniques.
- RISK
 - Assess and mitigate risks associated with VFR flight into IMC.
 - Identify risks associated with a reluctance to seek assistance or declare an emergency in a deteriorating situation.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude +/-200 ft; airspeed +/-10 kts; heading +/-20°**; and rollout on assigned **headings +/-10°**.

Basic Attitude Instrument Flying (BAIF) (IFR Courses)

- KNOWLEDGE
 - Understand the elements related to attitude instrument flying while conducting various instrument flight procedures.
 - Understand the interpretation and operation of pitch, bank, and power instruments.

- Understand normal and abnormal instrument indications.
- RISK
 - Identify risks associated with situations that can affect physiology and degrade instrument cross-check.
 - Assess and mitigate risks associated with spatial disorientation and optical illusions.
 - Identify risks associated with flying unfamiliar airplanes and avionics systems.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude +/-100 ft; airspeed +/-10 kts; bank +/-5°; and headings +/-10°**.
 - Use proper instrument cross-check and interpretation and apply the appropriate corrections when needed.

Intercepting and Tracking Navigational Systems and Arcs

- KNOWLEDGE
 -
 - Understand ground-based navigation including procedures for intercepting and tracking courses and arcs.
 - Understand satellite-based navigation including procedures for intercepting and tracking courses and arcs.
- RISK
 - Identify risks associated with a failure to manage automated navigation and autoflight systems.
- SKILL
 - Demonstrate the ability to set and correctly orient to the course to be intercepted.
 - Demonstrate the ability to intercept the specified course at appropriate angle, inbound to or outbound from a navigational facility or waypoint.
 - Maintain **airspeed ±10 knots, altitude ±100 feet, and selected headings ±5°**.
 - Apply proper correction to maintain a course, allowing no more than **¾-scale deflection** of the CDI. If a DME arc is selected, maintain that **arc ±1 nautical mile**.
 - Use an MFD and other graphical navigation displays, if installed, to monitor position, track wind drift, and to maintain situational awareness.

Holding

- KNOWLEDGE
 - Understand the elements related to holding procedures.
 - Understand the recommended entry procedures for standard and non-standard holding patterns.
- RISK
 - Assess and mitigate the risks associated with fuel reserves when assigned an unanticipated expected further clearance time (EFC).

- Identify the risks associated with conditions that could lead to a situation that requires holding.
- Identify the risks associated improper entry and wind correction during holding.
- Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain altitude +/-100 ft; airspeed +/-10 kts; heading +/-10°; and no more than ¾-scale deflection of the lateral guidance.
 - Recognize arrival at the holding fix and promptly initiate entry into the holding pattern.
 - Comply with ATC reporting requirements and restrictions.
 - Use proper wind correction procedures to maintain the desired pattern and to arrive over the fix as close as possible to a specified time and maintain pattern leg lengths when specified.

Non-Precision Approach

- KNOWLEDGE
 - Understand the procedures and limitations associated with a non-precision approach.
 - Understand the navigation system annunciations that can be expected during an RNAV approach.
- RISK
 - Assess and mitigate risks associated with descending below the minimum descent altitude (MDA) without adequate visual references.
 - Identify risks associated with an unstable approach.
 - Assess and mitigate risks associated with improper configuration during the approach procedure.
 - Assess and mitigate risks associated with managing automation.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude +/-100 ft; airspeed +/-10 kts; heading +/-10°**; and no more than ¾-**scale deflection** of lateral guidance and maintain the **MDA +100/-0 ft**.
 - Select, tune, identify, and confirm the operational status of navigation equipment to be used for the approach.
 - Establish the appropriate aircraft configuration and airspeed.
 - Complete the aircraft checklist items appropriate to the phase of the flight.
 - Establish a stabilized approach with a rate of descent and track that will ensure arrival at the MDA prior to reaching the missed approach point (MAP).
 - Execute the missed approach procedure when the required visual references for the intended runway are not distinctly visible and identifiable at the MAP.
 - Execute a normal landing from a straight-in or circling approach.

Precision Approach

- KNOWLEDGE
 - Understand procedures and limitations associated with a precision approach.

- RISK
 - Assess and mitigate risks associated with failing to immediately initiate a missed approach when the situation necessitates.
 - Identify risks associated with an unstable approach.
 - Assess and mitigate risks associated with improper configuration during the approach procedure.
 - Assess and mitigate risks associated with managing automation.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude +/-100 ft; airspeed +/-10 kts; heading +/-10°**; and no more than **¾-scale deflection** of either vertical or lateral guidance.
 - Select, tune, identify, and confirm the operational status of navigation equipment to be used for the approach.
 - Establish the appropriate aircraft configuration and airspeed.
 - Complete the aircraft checklist items appropriate to the phase of the flight.
 - Execute the missed approach procedure when the required visual references for the intended runway are not distinctly visible and identifiable at the DA/DH.
 - Execute a normal landing from a straight-in or circling approach.

Missed Approach

- KNOWLEDGE
 - Understand the elements related to missed approach procedures.
- RISK
 - Identify risks associated with not following the prescribed missed approach procedures.
 - Assess and mitigate the risks associated with holding, diverting, or attempting the approach again.
 - Assess and mitigate risks that might lead to executing a missed approach procedure prior to the missed approach point.
 - Assess and mitigate risks associated with managing automation.
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude(s) +/-100 ft; airspeed +/-10 kts; heading, course, or bearing +/-10°**.
 - Initiate the missed approach promptly.
 - Report to ATC as soon as possible upon initiating the missed approach procedure.
 - Comply with the published or alternate missed approach procedure.

Circling Approach

- KNOWLEDGE
 - Understand the elements related to circling approach procedures.
 - Understand the circling approach categories and associated airspeed restrictions.
- RISK

- Identify risks associated with failing to follow the prescribed circling approach procedure.
- Assess and mitigate risks associated with circling at night or with marginal visibility.
- Identify risks associated with failing to maintain the appropriate speed during circling.
- Assess and mitigate risks associated with low-altitude maneuvering.
- Demonstrate the ability to prioritize tasks and minimize distractions.
- SKILL
 - Maintain the appropriate circling **MDA +100/-0 ft**, until in position to make a normal landing.
 - Select, plan, and execute the appropriate circling approach procedure based on airport conditions.
 - Stay within minimum visibility requirements.

Partial Panel Approach

- KNOWLEDGE
 - Understand how to recognize inaccurate or inoperative instrument indications.
 - Understand common failure modes and how to correct or minimize the effect of their loss.
- RISK
 - Assess and mitigate risks associated with using reversionary or secondary flight displays.
 - Demonstrate the ability to prioritize tasks and minimize distractions.
- SKILL
 - If, non-precision approach, maintain **altitude +/-100 ft; airspeed +/-10 kts; heading +/-10°**; and no more than **¾-scale deflection** of either vertical or lateral guidance; and maintain the **MDA +100/-0 ft**.
 - If precision approach, maintain **altitude +/-100 ft; airspeed +/-10 kts; heading +/-10°**; and no more than **¾-scale deflection** of either vertical or lateral guidance.
 - Advise ATC if unable to comply with a clearance or instruction.
 - Demonstrate good situational awareness and systems knowledge.
 - Select, tune, identify, and confirm the operational status of navigation equipment to be used for the approach.
 - Establish the appropriate aircraft configuration and airspeed.
 - Complete the aircraft checklist items appropriate to the phase of the flight.
 - If non-precision approach, execute the missed approach procedure when the required visual references for the intended runway are not distinctly visible and identifiable at the MAP.
 - If precision approach, execute the missed approach procedure when the required visual references for the intended runway are not distinctly visible and identifiable at the DA/DH.
 - Execute a normal landing from a straight-in or circling approach when instructed by the instructor.

Landing from an Instrument Approach

- **KNOWLEDGE**
 - Understand elements related to the pilot's responsibilities, and the environmental, operational, and meteorological factors that affect landing from a straight-in or circling approach.
- **RISK**
 - Identify risks associated with attempting to land from an unstable approach.
 - Identify risks associated with flying below the glidepath.
 - Assess and mitigate risks associated with transitioning from instrument to visual references for landing.
- **SKILL**
 - Transition at the DA/DH, MDA, or VDP, allowing for safe visual maneuvering and a normal landing.
 - Complete the appropriate checklist.
 - Maintain positive airplane control throughout the landing maneuver.

Checking Instruments and Equipment

- **KNOWLEDGE**
 - Understand procedures for checking the functionality of all installed instruments and navigation equipment.
- **RISK**
 - Identify risks associated with a failure to perform a proper postflight inspection and properly document airplane discrepancies.
- **SKILL**
 - Conduct a postflight inspection, and document discrepancies and servicing requirements, if any.

SPECIALTY PROCEDURES



Short-Field Takeoff

- **KNOWLEDGE**
 - Understand the effects of atmospheric conditions on takeoff and climb performance.
 - Understand VX and VY.
- **RISK**
 - Able to select the best runway based on pilot ability, expected performance, airplane limitations, available distance, and wind.
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, various runway surfaces and conditions.
 - Establish a strategy for CAPS deployment during takeoff and climb.
 - Establish a plan for a rejected takeoff or engine failure during the takeoff or climb phase.

- Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **airspeed +10/-5 kts** until 50 ft, then **Vx +10/-5 kts**.
 - Complete the appropriate checklists and properly configure your Cirrus for takeoff.
 - Maintain directional control and proper wind-drift correction throughout takeoff and climb.
 - Apply brakes while setting aircraft power to achieve maximum performance.
 - Confirm takeoff power and proper engine and flight instrument indications prior to rotation.

Soft-Field Takeoff

- KNOWLEDGE
 -
 - VX and VY.
 - Appropriate aircraft configuration.
 -
 - Importance of weight transfer from wheels to wings.
- RISK
 -
 - Planning for rejected takeoff.
 - Planning for engine failure in takeoff/climb phase of flight.
 - Low altitude maneuvering/stall/spin.
 - Distractions, loss of situational awareness, and/or improper task management.
- SKILL
 -
 - Clear the area, align on the runway centerline without stopping.
 - Position the flight controls for the existing wind conditions.
 - Confirm takeoff power and proper instrument indications prior to rotation.
 - Pitch attitude that transfers the weight from the wheels to the wings rapidly.
 - Liftoff at the lowest possible airspeed.
 - Remain in ground effect while accelerating to VX or VY, as appropriate.
 - Maintain **VX or VY +10/-5 knots** to a safe maneuvering altitude.
 - Maintain directional control and proper wind drift correction.

Short-Field Landing

- KNOWLEDGE
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand the elements of a stabilized approach.
 - Understand wind correction techniques.
- RISK
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, and runway surface condition.

- RISK: Assess and mitigate the risks associated with land and hold short operations (LAHSO).
- RISK: Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **airspeed +10/-5 kts**, or as recommended for gust velocity.
 - Complete the appropriate checklists and establish the proper configuration to maintain a stabilized approach.
 - Align with the correct/assigned runway.
 - Maintain directional control and proper wind-drift correction throughout the landing and roll-out.
 - Touch down **within 200 feet** beyond a specified point.
 - Touch down slightly above stall.
 - Touch down with no appreciable drift.
 - Touch down with the longitudinal axis aligned with the centerline.
 - Perform maximum braking procedures.
 - Execute a timely go-around if an unsafe approach or landing may result.

Soft-Field Landing

- KNOWLEDGE
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand the elements of a stabilized approach.
 - Understand wind correction techniques.
- RISK
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, and runway surface condition.
 - Assess and mitigate the risks associated with land and hold short operations (LAHSO).
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **airspeed +10/-5 kts**, or as recommended for gust velocity.
 - Complete the appropriate checklists and establish the proper configuration to maintain a stabilized approach.
 - Align with the correct/assigned runway.
 - Maintain directional control and proper wind-drift correction throughout the landing and roll-out.
 - Touch down slightly above stall.
 - Touch down with no appreciable drift.
 - Touch down with the longitudinal axis aligned with the centerline.
 - Keep the nose wheel off the runway until loss of elevator effectiveness.
 - During rollout maintain proper position of the flight controls and sufficient speed to prevent sinking until taxiing clear of the “soft” surface.
 - Execute a timely go-around if an unsafe approach or landing may result.

Flaps 50% or 0% Landing

- KNOWLEDGE
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand the effects of flap configuration on approach angle and speed.
 - Understand the elements of a stabilized approach.
 - Understand wind correction techniques.
- RISK
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, and runway surface condition.
 - Assess and mitigate the risks associated with land and hold short operations (LAHSO).
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **airspeed +10/-5 kts**, or as recommended for gust velocity.
 - Complete the appropriate checklists and establish and maintain a stabilized approach.
 - Align with the correct/assigned runway.
 - Touch down **within 400 feet** beyond a specified point.
 - Touch down slightly above stall.
 - Touch down with no appreciable drift.
 - Touch down with the longitudinal axis aligned with the centerline.
 - Execute a timely go-around if an unsafe approach or landing may result.

Open Door Landing

- KNOWLEDGE
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand the elements of a stabilized approach.
 - Understand wind correction techniques.
- RISK
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, and runway surface condition.
 - Assess and mitigate the risks associated with land and hold short operations (LAHSO).
 - Demonstrate the ability prioritize tasks and minimize distractions.
- SKILL
 - Maintain **airspeed +10/-5 kts**, or as recommended for gust velocity.
 - Complete the appropriate checklists and establish and maintain a stabilized approach.
 - Align with the correct/assigned runway.
 - Touch down **within 400 feet** beyond a specified point.
 - Touch down slightly above stall.
 - Touch down with no appreciable drift.
 - Touch down with the longitudinal axis aligned with the centerline.
 - Execute a timely go-around if an unsafe approach or landing may result.

Forward Slip to a Landing

- KNOWLEDGE
 - Understand the concepts of energy management during a forward slip approach.
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand wind correction techniques during forward slip.
 - Understand when it's appropriate to use a forward slip during an approach.
- RISK
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, and runway surface condition.
 - Assess and mitigate the risks associated with land and hold short operations (LAHSO).
 - Demonstrate the ability prioritize tasks and minimize distractions.
 - Assess and mitigate the risks associated with forward slip operations.
 - Identify the risks associated with touching down when the aircraft is not aligned with the runway.
 - Assess and mitigate the risks associated with continuing an unstable approach.
- SKILL
 - Complete the appropriate checklists.
 - Align with the correct/assigned runway.
 - Touch down **within 400 feet** beyond a specified point.
 - Touch down slightly above stall.
 - Touch down with no appreciable drift.
 - Touch down with the longitudinal axis aligned with the centerline.
 - Execute a timely go-around if an unsafe approach or landing may result.

High-Altitude Operations (SR22T/SR22TN)

- KNOWLEDGE
 - Understand high-altitude physiology.
 - Understand the effect of altitude on engine operation.
 - Understand the requirements for carrying and using supplemental oxygen.
- RISK
 - Assess and mitigate risks associated with operation at high-altitudes.
- SKILL
 - Maintain **altitude +/-100 ft; heading +/-10°**; and no more than **¾-scale deflection** of the lateral guidance.

ABNORMAL PROCEDURES



Simulated CAPS Deployment

- KNOWLEDGE

- Understand CAPS operation and limitations.
- RISK
 - Identify situations that necessitate using CAPS.
 - Identify CAPS strategy during each phase of flight.
 - Assess and mitigate risks associated with pilot incapacitation and non-crewmember deployment of CAPS.
 - Demonstrate the ability to prioritize tasks and minimize distractions.
- SKILL
 - Announce and adhere to CAPS deployment strategy.
 - Complete the appropriate checklist for CAPS deployment.
 - Demonstrate good situational awareness, division of attention, and proper planning.
 - Complete post CAPS deployment procedures, when appropriate.

Electrical Malfunction

- KNOWLEDGE
 - Understand electrical system components and normal operation.
 - Understand possible electrical malfunctions applicable to your Cirrus.
- RISK
 - Identify risks associated with using the incorrect checklist for an electrical malfunction.
 - Demonstrate the ability to prioritize tasks and minimize distractions.
- SKILL
 - Demonstrate good situational awareness and systems knowledge.
 - Describe the appropriate action for a simulated electrical malfunction.
 - Execute the appropriate checklist.

Engine Malfunction

- KNOWLEDGE
 - Understand engine operation and indications.
 - Understand possible engine malfunctions.
- RISK
 - Identify the risks associated with using the incorrect checklist for an engine malfunction.
 - Assess and mitigate risks associated with an engine malfunction at low altitudes.
 - Demonstrate the ability to prioritize tasks and minimize distractions.
- SKILL
 - Maintain **airspeed +/- 10 kts.**
 - Recognize an engine malfunction and maintain control.
 - Demonstrate good situational awareness and systems knowledge.
 - Execute the appropriate checklist.
 - Describe the CAPS deployment strategy for an engine malfunction.

Diversions

- KNOWLEDGE
 - Understand selection of appropriate alternate destination airport.
 - Understand situations that require a deviation from your flight plan and/or ATC instruction.
- RISK
 - Identify risks associated with not making a timely decision to divert.
 - Assess and mitigate risks associated with selecting an alternate destination airport.
 - Identify risks associated with not using all available resources during the planning and execution of a diversion.
 - Demonstrate the ability to prioritize tasks and minimize distractions.
- SKILL
 - Maintain **altitude +/-200 ft and heading +/-15°**.
 - Select a suitable airport and route for diversion.
 - Update/interpret weather in flight.

PFD Malfunction (Display, ADC, or AHRS failure)

- KNOWLEDGE
 - Understand how to recognize inaccurate or inoperative instrument indications.
 - Understand common failure modes and how to correct or minimize the effect of their loss.
- RISK
 - Assess and mitigate risks associated with using reversionary or secondary flight displays.
 - Demonstrate the ability to prioritize tasks and minimize distractions.
- SKILL
 - Advise ATC if unable to comply with a clearance or instruction.
 - SKILL: Demonstrate good situational awareness and systems knowledge.
 - SKILL: Execute the appropriate checklist.

Power-Off 180°

- KNOWLEDGE
 - Understand the effect of atmospheric conditions on approach and landing performance.
 - Understand the concept of energy management.
 - Understand the elements of a stabilized approach.
 - Understand wind correction techniques.
- RISK
 - Assess and mitigate the risks associated with: crosswind, windshear, tailwind, wake turbulence, various runway surfaces and conditions.
 - Assess and mitigate the risks associated with land and hold short operations (LAHSO).
 - Assess and mitigate risks associated with initiating and executing a go-around or rejected landing.
 - Demonstrate the ability prioritize tasks and minimize distractions.

- SKILL
 - Complete the appropriate checklist.
 - Establish the proper configuration to make a safe landing **within 200 feet** beyond the specified point.
 - Touch down slightly above stall.
 - Touch down with no appreciable drift.
 - Touch down with the longitudinal axis aligned with the centerline.
 - Simulate deployment of CAPS if flightpath does not allow for a safe landing on a runway.