

Flight Instructor - Instrument Airplane

Non Precision Instrument Approaches, Holding, and Circling Approaches

Scenario:

You (the flight instructor) are an insurance agent and you need to fly to a nearby airport to assess damage to local restaurant that is on the airport. You have recently attained your instrument rating, but you have very little actual instrument time. Because the weather is such that it will require you to file an IFR flight plan and is near minimums at your destination, you ask your instructor (the student instructor) to go along. The airport has two runways, but the winds are favoring the runway that does not have an instrument approach, requiring you to fly a circling approach. After landing, you will assess the damage and then return home.

Lesson Objectives:

The purpose of this lesson is for the student instructor to learn to effectively perform and analyze non-precision approaches, holding procedures, and circling approaches.

The student instructor will also be able to assess the risks associated with this flight and be able to explain how to manage those risks to insure a safe training flight is conducted.

Pre-Briefing:

The student instructor will review the desired outcomes, discuss the scenario for the flight, and discuss the key elements of each maneuver to be flown. The student instructor will develop a maneuver lesson that describes and utilizes the scenario prescribed for this lesson. During the preflight briefing, the instructor will play the role of the student being trained and respond accordingly.

The student instructor should be able to explain the risks associated with simulated instrument flight using view limiting devices and the risks associated with teaching instrument flying.

Completion Standards:

This lesson will be complete when the student instructor can perform, teach and analyze each maneuver to the level shown on the desired outcome table

and within the tolerances specified by the Flight Instructor Instrument Practical Test Standard for Airplane.

FI-IA Non- Precision Approaches, Holding, Circling Approaches. Desired Outcome Grade Sheet			Task Grades					SRM Grades	
			Not Observed	Describe	Explain	Practice	Perform	Explain	Practice
Scenario Activities	Task	Desired Performance							
Preflight Lesson on a Maneuver to be Performed in Flight	Maneuver Lesson								
Preflight Procedures	Weather Information								
	Instrument Cockpit Check								
	SRM								
Air Traffic Control Clearances and Procedures	Air Traffic Control Clearances								
	Compliance with Departure, En Route, and Arrival Procedures and Clearances								
	SRM								
Navigation Systems	Intercepting and Tracking Navigation Systems								
	Holding Procedures								
	SRM								
Instrument Approaches	Non- Precision Approaches								
	Missed Approach Procedures								
	Landing from a Straight-in Approach								
	Circling Approach								
	SRM								
Post-flight Procedures	Checking Instruments and Equipment								
	SRM								

De-Briefing:

The debriefing will be lead by the student instructor using the Learner-Centered Grading method. The student instructor will critique the instructor about the instructor’s “simulated student” performance. Then the student instructor will critique his/her own performance using the Desired Outcomes Grading sheet as a guide. The instructor and student instructor will discuss any discrepancies in their respective evaluations.

Notes to the Instructor:

In this scenario, you will play the role of the insurance agent and your student will be the “instructor”.

The airport you chose for your destination should have a non-precision approach and be such that you can practice a circling approach. Also, you should be able to do a holding procedure either before the first approach or second approach.

As you approach the airport, mention that because the weather at the airport is a minimum, you would like for the student instructor to fly the first approach. This will give the student instructor the chance to explain and demonstrate a non-precision approach and circle to land on another runway. After landing, suggest your task is done and you now want to depart and return to your home base.

While enroute to your home airport, you should fly the airplane and have your student analyze and your performance and offer instruction to correct your performance. If you did not hold prior to the first approach, suggest there is a traffic delay that requires you to hold. Ask the student instructor to demonstrate the holding entry by suggesting that you would like a refresher. After the student instructor has demonstrated the entry and holding pattern, you should fly one or two patterns and have the student instructor analyze your performance.

After holding, you can fly a non-precision approach with a circling to land maneuver to a missed approach with the student instructor analyzing your performance. Afterwards, the student instructor can demonstrate a second circling approach.

Your decision to actually wear the view limiting device while playing the role of the student should be based on the actual flight environment and traffic situation. Do not compromise your duties as PIC or safety while playing the student role.