Flight Instructor Airplane Multiengine

Basic Attitude Instruments

Scenario:

Your multiengine student has an instrument rating, but has not flown instruments in a long time. This lesson will be devoted to reviewing basic attitude instrument flying, analyzing the maneuvers and correctly any deficient areas your student may demonstrate. At the end of the flight, you will practice some normal takeoffs and landings while working on traffic pattern procedures.

Lesson Objectives:

The purpose of this lesson is for the student instructor to learn to effectively perform and analyze the listed preflight operations, basic attitude instrument maneuvers, normal takeoffs and landings and traffic pattern procedures.

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. Also discuss how to manage risks associated with conducting unusual attitude recovery practice in a multiengine airplane. Be sure to decide on minimum altitudes and maneuvering limits during such maneuvering.

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 Practical Test Standard for Airplane, Multiengine.

FI- AME- Fundamentals of Flight, Takeoffs and Landings, Traffic Pattern **Desired Outcome Grade Sheet**			Task Grades					SRM Grades		
			Not Observed	Describe	Explain	Practice	Perform	Explain	Practice	Manage/Decide
Scenario Activities	Task	Desired Performance								
Preflight Lesson on a Maneuver to be Performed in Flight.	Maneuver Lesson									
	SRM									
Preflight Procedures	Preflight Inspection									
	Engine Starting									
	Taxiing									
	Before Takeoff Check									
	SRM									
Airport Operations	Radio Communications and ATC Light Signals									
	Traffic Patterns									
	Airport, Runway, and Taxiway Signs, Markings, and Lighting									
	SRM									
Takeoffs and Departure	Normal and Crosswind Takeoff and Climb									
	Airport Departure Procedures									
	SRM									
Basic Attitude Instruments	Straight-and-Level Flight									
	Constant Airspeed Climbs									
	Constant Airspeed Descents									
	Turns to Headings									
	Recovery from Unusual Flight Attitudes									
	SRM									
Arrival and Landings	Normal and Crosswind Approach and Landing									
	Go-Around/Rejected Landing									
	SRM									
Post Flight Procedures	Postflight Procedures									
	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:

The student instructor is learning how to prepare and to present effective scenario-based instruction. The student instructor may not have received scenario-based instruction and may need to review the information provided on the FAA/FITS website to gain a full understanding of the instructional process and its value.

The student instructor should develop a lesson plan that incorporates this scenario and conduct the flight in accordance with that plan. You should review this lesson plan during the preflight briefing and make any suggestions for improvement at that time.

You should have the student instructor “teach” you the preflight procedures for the airplane. During this preflight, you can discuss the differences between preflighting a multiengine airplane as compared to a single-engine airplane.

While you are flying out to the practice area, you should play the role of the student and have the student instructor demonstrate to you the maneuvers and procedures. After the student instructor has “taught” you all of maneuvers, you should fly the airplane in the role of the “student” and have the student instructor analyze and evaluate your performance and offer proper corrective instruction.

Whether or not you actually wear a view limiting device will depend on several factors. It may be necessary for you to simulate wearing a view limiting device.

Be sure to discuss the risk elements involved with teaching students in a multiengine airplane and how an instructor can mitigate those risks. This is especially critical when conducting takeoff and landing with new students.

When conducting unusual attitude practice, be sure the student instructor teaches you how to properly clear the area and what types of maneuvers are appropriate for this training.