C-414A Recurrent Ground Training Student Guide

Filename: 414_Ground_Recurrent.doc Revision: 8/5/2015

Use with C-414A Recurrent Flight Training Student Guide

8 Hours or as required

LESSON	SUBJECTS	Hours
1	Review and discussion of recent aviation experience. Discussion of Areas of Operation and Standard Operating Procedures. Selected Safety Topic. Flight Review Gnd.	2
2	Aircraft General Review, Engines, Propellers, Flight and Engine Instruments, Limitations, Aircraft Systems, Performance, Flight Planning. IPC Gnd. Lessons #2 - #7	1
3	Airworthiness. Automation, Approaches, Flight Profiles.	1
4	Emergency Procedures. PTS Special Emphasis Areas	1
5	Single Pilot Resource Management.	1
6	Risk Management.	1
7	Oral Quiz.	1

OBJECTIVES: The pilot will review and refresh his understanding of aircraft systems, controls, indicators, limitations and operational procedures for the aircraft. Training will be tailored to the specific needs of the student. Ground training is usually integrated with flight training and consists of two sessions: Day 1 ground training is approximately 4 hours, and contains a review of recent aviation experience, aircraft systems, relevant safety topics, and constitutes the ground portion of the flight review. Session 2 ground training is also approximately 4 hours, and constitutes ground portions of the Instrument Proficiency Check. Session 2 also contains presentations, reviews and an oral quiz. Flight training consists of two sessions: Session 1 is practice of operational procedures, maneuvers, and events. Session 2 is the Instrument Proficiency Check and/or completion of the Flight Review.

COMPLETION STANDARDS: You demonstrate through oral questioning that you understand and can safely operate the aircraft, the use of the systems and controls, and operational procedures. Upon successful completion of both the ground and flight training, you will receive the appropriate endorsements in your logbook.

ENROLLMENT PREREQUISITES: Enrollment in this course is contingent on the pilot holding at least a private pilot certificate, an instrument rating or ATP with an airplane rating, and a multiengine land rating.

HOW TO USE THIS GUIDE Lesson elements contain bulleted items represented by a double line arrow to the left of each subject:

⇒ Fuel System

The double line arrow serves as a checklist for each lesson element, and is marked solid by the instructor in his copy when that area of knowledge has been completed:

➔ Fuel System

My mission is: *"Excellence in pilot training and evaluation, ensuring that pilots trained and certified are the safest in the world."*

To that extent, my intention is to provide you with the kind of training experience, which fully supports the goals of my mission statement: Excellence in training, safety and quality.

As my customer, you are the single most important resource I have for information, suggestions, feedback, and fresh ideas. Please do not hesitate to forward your comments and thoughts to me.

My goal to leave you with a sense that you received the finest training available, conducted in a positive learning environment. Your constructive input allows me to maintain my commitment to you.

Thomas Gorski
2267082 CFI

Lesson # 1- 2 Hours

Name_____ Date_____ Hours_____

Start Time_____ Stop Time_____

⇒ Introduction and welcome

⇒ Overview of recurrent training course

⇒ Review and discussion of recent aviation experience

⇒ Discussion of Areas of Operation

⇒ Standard Operating Procedures

⇒ Selected Safety Topic – Presentation

⇒ Flight Review Ground Segment

⇒ General operating and flight rules of 14CFR Part 91

⇒ Flight Review Briefing

⇒ Faasafety.gov look for ALC-25 – Flight Review Prep Guide

⇒ Discussion of maneuvers and procedures necessary to demonstrate safety

Lesson # 2 - 1 Hour

Name_____ Date_____ Hours_____

Start Time_____ Stop Time_____

⇒ Aircraft General Review

⇒ Engines

⇒ Propellers

⇒ Flight and Engine Instruments

⇒ Limitations

⇒ Performance

⇒ Flight Planning

⇒ Fuel System

⇒ Flight Control Systems

⇒ Trim System Manual, Electric

⇒ Wing Flap System

⇒ Stall Warning System

⇒ Electrical System

⇒ Annunciator System

⇒ Landing Gear

⇒ Brakes

⇒ Environmental System

⇒ Cabin Pressurization System

⇒ Oxygen System

⇒ Anti-Ice

⇒ De-Ice

⇒ Wing De-Ice Boots Operational Check

⇒ Alcohol Windshield Limitations

⇒ Performance

⇒ Hazardous Weather Avoidance

Lesson # 3 - 1 Hour

Name_____ Date_____ Hours_____

Start Time_____ Stop Time_____

⇒ Airworthiness: Basic (§ 91.7) No person may operate a civil aircraft unless it is in an airworthy condition. The pilot in command of a civil aircraft is responsible for determining whether that aircraft is in condition for safe flight. The pilot in command shall discontinue the flight when unairworthy mechanical, electrical, or structural conditions occur.

⇒ Flight manual, markings, and placards (§ 91.9).

⇒ Instrument and equipment requirements (§ 91.205).

⇒ Emergency locator transmitter (ELT) (§ 91.207).

⇒ Position lights (§ 91.209).

⇒ Inoperative instruments and equipment (§ 91.213).

⇒ Transponder requirements (§ 91.215).

⇒ Maintenance required (§ 91.405).

⇒ Maintenance records (§ 91.417).

⇒ Inspections:

⇒ Automation – Flight Management

⇒ Approach Profiles

⇒ Flight Profiles

Lesson # 4 - 1 Hour

Name_____ Date_____ Hours_____

Start Time_____ Stop Time_____

⇒ Emergency Procedures

⇒ 1. Positive aircraft control;

⇒ 2. Positive exchange of the flight controls procedure (who is flying the aircraft);

⇒ 3. Stall/spin awareness;

⇒ 4. Collision avoidance;

⇒ 5. Wake turbulence avoidance;

⇒ 6. Land and hold short operations (LAHSO);

⇒ 7. Runway incursion avoidance;

⇒ 8. CFIT;

⇒ 9. ADM and RM;

⇒ 10. Checklist usage;

⇒ 11. SRM;

⇒ 12. Icing condition operational hazards, anti-icing and deicing.

Lesson # 5 - 1 Hour

Name_____ Date_____ Hours_____

Start Time_____ Stop Time_____

⇒ Single Pilot CRM - Presentation

⇒ Crew Resource Management (CRM)

⇒ ATC, Flight Dispatch, & Flight Following

⇒ Automation Resources

⇒ UAL 173

⇒ Evolution of CRM/SRM

⇒ Resources to Prevent and Trap Errors

⇒ Preflight Resources

⇒ Passengers

⇒ In-flight Resources

⇒ Tablet Apps

⇒ Risk Management Handbook– Chapter Six

⇒ faa.gov

⇒ flighttraining.aopa.org

Lesson # 6 - 1 Hour

Name_____ Date_____ Hours_____

Start Time_____ Stop Time_____

⇒ Risk Management – Presentation

⇒ PIC's Responsibility

⇒ PIC's Authority

⇒ Accidents major cause-factors

⇒ 3-P Model

⇒ Scenario Exercises

Lesson # 7 - 1 Hour

Name_____ Date_____ Hours_____

Start Time_____ Stop Time_____

⇒ Quiz and Review