

AVIATION CAREER ACHIEVEMENT AWARD

Aviation Achievements

Name: _____

(Certification: Adult leaders must initial and date each completed achievement.)

Do nine of the following:

- 1a. Learn how to preflight a fixed- or rotor-wing aircraft and then show a group how to do it.
- 1b. Show a group the location, and explain the function, of all primary engine and flight controls and instruments found in either a fixed- or rotor-wing aircraft.
- 1c. Take an orientation flight.

Completed _____

- 2a. Explain the meaning of symbols on a sectional chart.
- 2b. Draw and explain a wind triangle diagram to show how to obtain heading and ground speed when given: course, airspeed, wind direction, and wind speed.
- 2c. Explain the general differences between locating position by pilotage, dead reckoning, radio aids, and GPS.

Completed _____

- 3a. Demonstrate how to file a flight plan. Also discuss the requirements for an alternate airport.
- 3b. Using a sectional chart, plot a triangular course with one leg at least 60 miles long. Figure magnetic headings and estimate flight times over well-chosen checkpoints, flying at a given airspeed with a given wind direction and speed. Explain the problem and the solution to a group, bringing out the major reasons for choosing the altitude of each leg and determination of a particular checkpoint.

Completed _____

4. Take down and reassemble an aircraft carburetor or equivalent part.

Completed _____

- 5a. Using cutaway diagrams or actual propellers, show the contrasts between controllable-pitch and fixed-pitch propellers.

OR

- 5b. Assist in repair or reassembly of either type of propeller.

Completed _____

6a. Put on an aviation-oriented program for another post or another community youth group.

OR

6b. Be part of a ground crew for an aviation activity such as orientation flights, hot-air ballooning, or soaring.

Completed _____

7a. Serve as a post officer.

7b. Participate in a post officers' planning session to plan upcoming programs for your post.

7c. Prepare for and lead at least one post program dealing with an aviation career or plan and lead a field trip to learn about an aviation career.

Completed _____

8a. Construct and fly a radio-controlled model airplane.

OR

8b. Build and launch a model rocket. Contact NASA for information on current or past NASA research projects and share it with your post or another group.

Completed _____

9a. Arrange a tour of a Federal Aviation Administration (FAA) facility.

9b. After the tour, lead a post discussion on the function and job requirements of that facility.

Completed _____

10a. Arrange a tour at an airline or airport facility.

10b. Recruit a speaker who is a commercial pilot, flight attendant, aircraft mechanic, ticket agent, airport manager, or other aviation professional for a post meeting. Have the speaker talk about his or her job, career, and education required.

Completed _____

11. Find out what job opportunities are available in aviation. Describe the qualifications and working conditions of one job in which you are interested. Tell what it offers for reaching your goal in life.

Completed _____

12a. Explain the differences in the operation of piston, turbojet, turboprop, and turbofan engines.

12b. Tell six rules of safety to follow around airplanes and airports.

Completed _____

13a. Describe how aviation has affected our world.

13b. Describe some kinds of aircraft in use today.

13c. List at least 10 uses of aircraft.

Completed _____

14. Attend a regional or national aviation conference as a participant or staff member.

Completed _____

Resources

Explorer Leader Handbook (No. 34637A) and Learning for Life Web site (www.learning-for-life.org)

Qualifying Achievements

Because of the design and flexible nature of the program, Advisors and adult leaders are permitted a reasonable degree of latitude in substituting appropriate achievements that serve to meet the qualifying requirements for the Learning for Life Career Achievement Award.

Requirements

Explorers or Learning for Life participants can earn any Career Achievement Award in one or all of the 12 career clusters. To earn a Career Achievement Award, the candidate must provide *50 hours of community service and complete any nine career achievements*. The Explorer post Advisor or adult high school Learning for Life group leader certifies that each Explorer or Learning for Life participant has satisfactorily performed 50 hours of community service and verifies that each candidate has completed at least nine achievements within the career cluster.