

Vincennes University
Aviation Maintenance Technology
Indianapolis International Airport

Required Tool List
Revised August 2005

Snap-On, Craftsman and Mac Tools give Vincennes University students a substantial discount, but any other quality tool manufacturer such as S&K, Williams, Matco, Proto, etc., are also acceptable.

Note All tools must meet the minimum requirements of this list.

No Substitution of tool types.

1. Safety glasses
2. Hearing protection
3. Paint mask (with activated charcoal filters for organic solvents)
4. Flashlight (no magnetic mount)
5. Set of alkaline batteries for above flashlight
6. Inspection mirror (approximately 2" round)
7. Flexible magnetic pickup tool
8. Diagonal cutters
9. Duck bill pliers
10. Needle nose pliers
11. Channel lock pliers
12. Snap-ring pliers (internal and external)
13. Magnetic screwdriver with tips
14. Screwdriver set that includes the following approximate sizes:
 - 3/16" x 4" common screwdriver
 - 1/4" x 6" common screwdriver
 - #1 x 3" Phillips
 - #2 x 4" Phillips
15. 8" Adjustable wrench
16. Ignition wrench set (12 point, approx. 5/32" - 3/8")
17. Combination wrench set (3/8" - 1", 12 point)
18. Angle wrench set (3/8" - 1")
19. 1/4" Drive socket set (3/6" - 9/16")
(all must be 12 point with the possible exception of the 3/16" and 7/32")
20. 1/4" drive universal socket set (3/16" - 9/16" 12 point)
21. 1/4" drive ratchet
22. 1/4" drive extension (2")
23. 1/4" drive extension (6")
24. 3/8" drive socket set (3/8" - 1" 12 point)
25. 3/8" drive ratchet
26. 3/8" drive extension (2")
27. 3/8" drive extension (6")
28. 3/8" speed handle
29. Adapter so that 1/4" screwdriver tips can be used on speed handle
30. Adapter (1/2" female to 3/8" male)
31. Adapter (3/8" female to 1/4" male)
32. Mill file
33. Half round file

34. 1/4" round file
35. File handles (2)
36. Jewelers file set
37. File card
38. Plastic / rubber tipped hammer (1 pound)
39. Ball peen hammer (8 ounce)
40. Brass punch
41. Punch and chisel set (includes 3/32", 1/8", 5/32", 3/16" pin punches and 3/8" flat chisel)
42. Automatic center punch
43. Allen wrench set (.028" - 1/4")
44. Feeler gauge set, tapered or 1/4" wide (.0015" up)
45. Air chuck
46. Blow gun
47. Air fittings (1/4" male N.P.T. type C adapter) (4)
48. Tire gauge
49. Valve core remover, straight
50. Metal cutting shears (offset left hand cut)
51. Metal cutting shears (offset right hand cut)
52. Wire stripper / crimper (high quality with screw cutter)
53. 6" scale (graduated in 32nds and 64ths with decimal equivalent on back)
54. 25-foot tape measure
55. Black fine permanent markers (2)
56. Calculator
57. Tool box (max. dimensions 30" W x 16" D x 26" H)

Bottom roll cabinet is available at kit price and is recommended for working the field. However, due to space limitations, only the box listed above will be allowed in the building.

Tool Kit Proposal — Chapter 1311

Intent: To aid a financially stressed person get a start on the basic tools needed for the required courses while pursuing the A & P license. Tools may cost upwards of a thousand dollars by completion. The basic tools to start with may be used but serviceable (not junk) and be contributed to the chapter. Just about every person involved in aviation ends up with surplus tools and equipment as time moves on and they no longer have a use for them.

Requirements: Initially we will call it a TOOL LIBRARY with the chapter retaining ownership while the student is taking classes. Student must maintain passing grades. Should the student drop out, he cannot take the tools with him. However, upon receiving the A & P license, the chapter may donate the tools to the student should they be needed for employment.

Note: It is possible for this to progress to a tool scholarship if this works out initially.

To start, an application would need to be submitted. A selection committee would need to be established: i.e., two members from the school and one from the chapter, or just the reverse. Having to be a member of the EAA cannot be a requirement (discrimination problems). We may, however, invite the student to attend the chapter meetings and functions. A person in the chapter should be selected to oversee and monitor this program. Should the chapter cease to exist, the tools would be donated to whichever school the student is attending, or a private individual may desire to continue the program.

It is very possible that this proposal would become an annual function at the beginning of each school year as it usually takes two years to complete all classes.

Financing this proposal may be done in various ways; i.e., 50/50 drawing at the chapter meetings, setting aside money for this specifically, cash contributions, donations of tools and even outside contributions from other persons or groups.

Let it be noted that the Indianapolis area has several Airframe and Powerplant (A & P) schools in its geographical area and possible employment after graduation may be available.

If the program is successful and it progresses to the school scholarship level, I would like the chapter to consider naming it "The Eric Gustafson Tool scholarship."

Submitted by:
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