



AVIATION MAINTENANCE TECHNOLOGY REQUIRED TOOL LIST

REVISED 9/1/17 (per AVM Student Handbook)

- ~ Tools are not needed the first day of class but are *required* by the second semester of class.

TOOLS

Under our FAA certification, each student is required to have in the hangar a complete tool box during all hours of classroom and shop instruction. Failure to have a complete tool box during all hours of instruction will result in penalties which include, but are not limited to, a reduction in course lab evaluation or an F in the course. See following list.

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REQUIRED TOOL LIST:

| <u>Quantity</u> | <u>Description</u> |
|------------------------|--|
| 1 Each | Duckbill Pliers |
| 1 Each | Needle Nose Pliers |
| 1 Each | Combination Slip-Joint Pliers |
| 1 Each | Standard Diagonal (Side) Cutter |
| 1 Each | Standard Ratchet – ¼ “Drive |
| 1 Set | ¼” Drive Sockets- Deep 6 or 12 Point; 3/16"-1/2" |
| 1 Set | ¼” Drive Sockets- Standard 12 Point; 3/16"-1/2" |
| 1 Each | Extension- ¼” Drive; 3" Length |
| 1 Each | Extension- ¼” Drive; 6" Length |
| 1 Each | Ratchet- 3/8” Drive |
| 1 Set | Sockets- 3/8” Drive - Standard 6 Point; ¼”-7/8” (11 pieces) |
| 1 Each | Socket 3/8” Drive-Deep 6 Point 7/8” |
| 1 Each | 7/16” Open end Crowsfoot, 3/8” Drive |
| 1 Each | Extension- 3/8” Drive; 3" Length |
| 1 Each | Extension- 3/8” Drive; 6" Length |
| 1 Each | Adapter- 3/8” to 1/2” |

| <u>Quantity</u> | <u>Description</u> |
|------------------------|--|
| 1 Each | Adapter- 1/4" to 3/8" |
| 1 Each | Adapter- 3/8" to 1/4" |
| 1 Set | Hex Wrench Set- (15 pieces <u>minimum</u>) |
| 1 Each | Plastic Tipped Hammer (16 ounces) |
| 1 Each | Ball Peen Hammer (8 ounce head) |
| 1 Each | Flat Hand File- Single Cut Mill, 10" |
| 1 Each | Combination Wrench Set- 12 Point; 5/16"- 7/8" (10 pieces) |
| 1 Each | Steel Scale- 6 Inch (1/64" graduations) |
| 1 Each | Machinist, combination or Tri-square |
| 1 Each | Tape Measure- 8 Foot Length (<u>minimum</u>) |
| 1 Each | Center Punch- 3/8" X 4.5" Length |
| 1 Each | Pin Punch- 3/32" |
| 1 Each | Pin Punch- 1/8" |
| 1 Each | Bronze (Brass) Punch- 8" Long; 3/8" Point |
| 1 Each * | Screwdriver- 1 1/2" Slotted Blade |
| 1 Each * | Screwdriver- 3" Slotted Blade |
| 1 Each * | Screwdriver- 4" Slotted Blade |
| 1 Each * | Screwdriver- 1 1/2" #2 Phillips Blade |
| 1 Each * | Screwdriver- 3" #1 Phillips Blade |
| 1 Each * | Screwdriver- 4" #2 Phillips Blade |

| <u>Quantity</u> | <u>Description</u> |
|-----------------|--|
| 1 Each | Inspection Mirror (2" diameter) |
| 1 Each | Flashlight (Non-metal case) |
| 1 Each | Magnetic Pick-Up Tool |
| 1 Each | Tool Storage Unit - of sufficient size to store your tools but should not exceed the size of 21" wide x 14" high x 9" deep |
| 5 Each | #30 Drill Bits |
| 5 Each | #40 Drill Bits |
| 2 Each | #31 Drill Bits |
| 2 Each | #42 Drill Bits |
| 1 Pair | Safety Glasses |
| 1 Pair | Hearing Protectors (ear plugs or ear muffs) |
| 1 Pair | Gas Welding Goggles (Shade 5 lens)^ |
| 1 Pair | Tig Welding Gloves (Light Duty)^ |
| 1 Pair | Snap Ring Pliers: internal and external with interchangeable tips |
| 1 Each | 6" Dial or Digital Caliper that measures .001 inch |
| 1 Each | Thickness Gauge P/N FB325A |
| 1 Each | Safety Wire Pliers – Reversible or Standard |
| 1 Each | Basic Scientific Calculator (ex. T136X or comparable) |
| 1 Each | 10X Magnifying Glass |

***a screwdriver handle with changeable tips is acceptable.**

°not necessary until the beginning of spring semester

^not necessary until the beginning of the Fall second year

OPTIONAL TOOLS

| | |
|--------|---|
| 1 Each | Microstop Countersink Tool° P/NAT1441HSBS |
| 1 Each | Microstop Countersink #30 Cutters |
| 1 Each | Microstop Countersink #40 Cutters |
| 1 Each | Hacksaw w/ spare blades |

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REQUIRED TEXT MATERIALS

It is the student's responsibility to have all textbooks, study guides and related materials during all class periods. Required materials will be identified in the course outline.

Students will not be allowed to duplicate published materials on the AVM paper copier. This is a violation of copyright laws.

FIRST YEAR BOOK LIST

| <u>Title</u> | <u>Author</u> | <u>Publisher</u> | <u>ISBN</u> |
|---|----------------------|-------------------------|--------------------|
| <u>REQUIRED</u> A&P General Textbook | Jeppesen | Jeppesen | 9780884875598 |
| A&P Airframe Textbook | Jeppesen | Jeppesen | 9780884871828 |
| FAR Handbook for Aviation Maintenance Tech | Jeppesen | Jeppesen | 9780884871873 |
| Aircraft Inspection, Repair & Alterations | FAA | ASA | 9781619540217 |
| <u>OPTIONAL</u> A&P General Test Guide | Jeppesen | Jeppesen | 9780884870586 |
| A&P Airframe Test Guide | Jeppesen | Jeppesen | 9780884871934 |
| A&P Aviation Dictionary | Jeppesen | Jeppesen | 9780884875741 |

SECOND YEAR BOOK LIST

| <u>Title</u> | <u>Author</u> | <u>Publisher</u> | <u>Edition</u> |
|--|---------------|------------------|----------------|
| <u>REQUIRED</u> | | | |
| A&P Technician Powerplant Textbook | Jeppesen | Jeppesen | 9780884872023 |
| A&P Technician Powerplant Test Guide | Jeppesen | Jeppesen | 9780884871941 |
| <u>OPTIONAL</u> | | | |
| A&P Aviation Dictionary | Jeppesen | Jeppesen | 9780884875741 |