

Aviation Program Toolkit

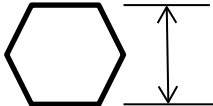
Students in the Aviation Maintenance programs are required to have a toolkit for lab activities. This document provides a list of the minimum requirements. A Snap-On toolkit may be purchased directly from the IWCC cashier. It is best to purchase it prior to the beginning of the semester as students are required to have their tools by the beginning of the second semester of classes (January) or they may be excluded from these lab classes. If you currently own some tools of professional quality, you can purchase what you need to fill out your set. We do insist that the tool storage, box or cart, not exceed the size listed due to space constraints in the hanger.

- Tool kits will be kept in the program area and must not be removed until the student has completed the program. Program staff and the student will inspect their box and contents when the student leaves the program.
- Toolbox should no larger than 4,300 cubic inch carrying cap all drawers must be shadowed for tools below.

The cost of the preferred tools is estimated to be \$2,900 for the roller cabinets or \$4,900 for the travel boxes. If you have financial aid and expect a refund this semester, you may be able to apply the refund toward the purchase of your tools. Contact your College Success Advisor to see about those arrangements. See your instructor for further details and other options available to you.

Toolkit Minimum Requirements

-----Item-----	Size	-----Item-----	Size
1/4-inch Drive, 12 Point Shallow Universal Sockets	1/4"	1/4-inch Drive Ratchet	Overall length 4 7/16"
	5/16"	3/8 Inch Drive Ratchet	Overall length 10
	3/8"	Universal Joint	1/4" Drive
	7/16"	Universal Joint	3/8" Drive
	1/2"	1/4" Drive Extension	2 inches long
	9/16"	1/4" Drive Extension	4 inches long
1/4-inch Drive, 12 Point Deep Sockets	3/16"	1/4" Drive Extension	6 inches long
	7/32"	3/8" Drive Extension	3 inches long
	1/4"	3/8" Drive Extension	6 inches long
	9/32"	3/8" Drive Extension	11 inches long
	5/16"	Half Round File	10 inches long
	11/32"	Mill File	10 inches long
	3/8"	Adjustable Jaw File Handle	standard 4 1/2" long 1" dia.
	7/16"	File cleaner brush	std. 7 1/2" long
	1/2"		
	9/16"		

-----Item-----	Size	-----Item-----	Size
1/4-inch Drive, 12 Point Shallow Sockets	3/16"	Long Nose Pliers with cutter	2 1/4" Jaw-- 8" overall length
	7/32"	Combination Slip Joint Pliers	6 7/16" long
	1/4"	Duck Bill Pliers	Overall length 7 3/4"
	9/32"	Diagonal Cutting Pliers	Overall length 5"
	5/16"	Diagonal Cutting Pliers	Overall length 6 5/16"
	11/32"	Standard Needle Nose Pliers	Overall length 6"
	3/8"		
	7/16"		
	1/2"		
	9/16"		
	3/16"		
3/8-inch Drive 12 Point Shallow Sockets	1/4"	Standard Hex Wrench Set "Allen Wrenches" consisting of the following sizes 	0.028"
	5/16"		0.035"
	3/8"		0.050"
	7/16"		1/16"
	1/2"		5/64"
	9/16"		3/32"
	5/8"		7/64"
	11/16"		1/8"
	3/4"		9/64"
	13/16"		5/32"
	7/32"		3/16"
	3/4"		7/32"
	13/16"		1/4"
	7/8"		5/16"
			3/8"
Aviation Style Cutting Shears "Aviation Snips"	Red Handle—left hand	Ball Peen Hammer	8 oz
	Green Handle—right hand cut	Plastic Tipped Hammer	16 oz wt.
	Yellow Handle--straight		
Ignition 15°/60° Offset Wrench Set	1/8—1/8"	Pin Punch	3/32"
	5/32—5/32"		1/8"
	3/16—3/16"		5/32"
	15/64—1/4"		3/16"
	1/4—15/64"		7/32"
	9/32—5/16"	1/4"	
	5/16—1/4"	5/16"	
	11/32—3/8"	Center Punch	5/16 hex size 5" long
3/8—11/32"	Pocket Magnifier	Multi Lens	
True Flush Cut (tapered head) Electrical Service Cutter	Overall length 4 7/16 inches	Reversible Wire	6- or 9-inch pliers with
	Cutting capacity AWG#17	Open end Angled 30° and 60° Wrenches	3/8"
Scribe/pick	straight end and 90° end		7/16"
			1/2"
			9/16"
			5/8"
			11/16"
		3/4"	



-----Item-----	Size	-----Item-----	Size
Ratcheting Soft Grip Stubby Screwdriver Handle	Overall (total) length 4 1/2" shank length 2"	Combination Wrench with 12-point box end	7/32"
Hex Shank Screwdriver Bit	No. 2 Phillips		1/4"
Hex Shank Screwdriver Bit	Standard size flat bit		5/16"
Reversible Blade Screwdriver	9/32 and 13/64 flat tip rev. bit #1 and #2 Phillips rev. bit		11/32"
Combination Measuring Set	12-inch Rule with Square/90 head—Center Head and Protractor Head	Short handle Combination Wrench with Ratcheting Box end	3/8"
			7/16"
6" Steel Rule	Graduated in 1/32 and 1/64"		1/2"
			9/16"
Inspection Mirror 1 1/4" dia.	closed length 10" ext. length 14"		5/8"
Feeler Gauge	25 blades .0015, .002 to .025" .001" increments.		11/16"
		3/4"	
Explosion Proof Flashlight		3/8-inch Drive Crowfoot Wrenches	13/16"
Telescopic Magnetic Pen-style pick up tool			7/16"
			15/16"
			1"

<p>Tool Box</p> <p>No larger than 4,300 cubic inch carrying cap.</p> <p>all drawers must be shadowed for above tools.</p>	<p>Recommended: Snap-On KMC18062N with eight (8) drawers</p>	
<p>The Snap-On Aircraft Maintenance Kit with Portable Chest # KMC18AVTK with additional 211FCOA 3/8-inch Drive Crowfoot wrenches and OXIR707 Flank Drive Combination Ratcheting Box/Open End Wrenches is recommended.</p>		