

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.

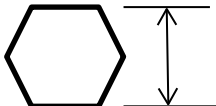
- Tool kits will be kept in the program area and must not be removed until the student has completed the program. Program staff and the student will inspect their box and contents when the student leaves the program.
- Toolbox should no larger than 4,300 cubic inch carrying cap all drawers must be shadowed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

The cost of the preferred tools is estimated to be \$4,775 for the roller cabinets or \$2,880 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"		
	11/32"	Half Round File	10 inches long
	3/8"	Mill File	10 inches long
	7/16"	Adjustable Jaw File Handle	standard 4 1/2" long 1" dia.
	1/2"	File cleaner brush	std. 7 1/2" long
	9/16"		

-----Item-----	Size
1/4-inch Drive, 12 Point Shallow Sockets	3/16"
	7/32"
	1/4"
	9/32"
	5/16"
	11/32"
	3/8"
	7/16"
	1/2"
	9/16"
	3/16"
3/8-inch Drive 12 Point Shallow Sockets	1/4"
	5/16"
	3/8"
	7/16"
	1/2"
	9/16"
	5/8"
	11/16"
	3/4"
	13/16"
	7/8"
Aviation Style Cutting Shears "Aviation Snips"	Red Handle—left hand
	Green Handle—right hand cut
	Yellow Handle--straight
Ignition 15°/60° Offset Wrench Set	1/8—1/8"
	5/32—5/32"
	3/16—3/16"
	15/64—1/4"
	1/4—15/64"
	9/32—5/16"
	5/16—1/4"
	11/32—3/8"
	3/8—11/32"
True Flush Cut (tapered head) Electrical Service Cutter	Overall length 4 7/16 inches Cutting capacity AWG#17
Scribe/pick	straight end and 90° end

-----Item-----	Size
Long Nose Pliers with cutter	2 1/4" Jaw-- 8" overall length
Combination Slip Joint Pliers	6 7/16" long
Duck Bill Pliers	Overall length 7 3/4"
Diagonal Cutting Pliers	Overall length 5"
Diagonal Cutting Pliers	Overall length 6 5/16"
Standard Needle Nose Pliers	Overall length 6"
Standard Hex Wrench Set "Allen Wrenches" consisting of the following sizes 	0.028"
	0.035"
	0.050"
	1/16"
	5/64"
	3/32"
	7/64"
	1/8"
	9/64"
	5/32"
	3/16"
	7/32"
	1/4"
	5/16"
	3/8"
Ball Peen Hammer	8 oz
Plastic Tipped Hammer	16 oz wt.
Pin Punch	3/32"
	1/8"
	5/32"
	3/16"
	7/32"
	1/4"
	5/16"
Center Punch	5/16 hex size 5" long
Pocket Magnifier	Multi Lens
Reversible Wire	6- or 9-inch pliers with
Open end Angled 30° and 60° Wrenches	3/8"
	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	
Hex Shank Screwdriver Bit	No. 2 Phillips			7/32"
Hex Shank Screwdriver Bit	Standard size flat bit			1/4"
Reversible Blade Screwdriver	9/32 and 13/64 flat tip rev. bit #1 and #2 Phillips rev. bit			5/16"
Combination Measuring Set	12-inch Rule with Square/90 head—Center Head and Protractor Head			11/32"
6" Steel Rule	Graduated in 1/32 and 1/64"		Short handle Combination Wrench with Ratcheting Box end	3/8"
Inspection Mirror 1 1/4" dia.	closed length 10" ext. length 14"			7/16"
Feeler Gauge	25 blades .0015, .002 to .025" .001" increments.			1/2"
Explosion Proof Flashlight				9/16"
Telescopic Magnetic Pen-style pick up tool				5/8"
				11/16"
				3/4"
				13/16"
				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>		