

Aviation Tool Program

Students in the Aviation Maintenance program are required to have a tool set for lab activities. Instructors provide students with a list of the minimum requirements. Please note that this is a minimum list and you may have more tools than that. We do insist that the tool storage, box or cart, not exceed the size listed. We recommend that you bring the most professional set of tools you can afford. If you currently own some tools of professional quality, you can purchase what you need to fill out your set. We can provide information for vendors who want to work with students to build their professional tool sets by selling complete sets, partial sets, and offer discounts to students.

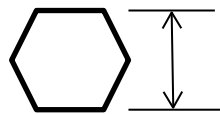
- Students registered for any of our aviation maintenance courses will be required to have their tools in the program area by the beginning of the second semester of classes or they may be excluded from these lab classes.
- Sets must consist of professional grade tools and match the required list.
- 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.
- Most residential insurance companies can provide a rider to the policy at a minimal cost to cover personal tools and toolboxes.

The cost of the preferred tools is estimated to be \$2,600. 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 the vendor to see about those arrangements. To see if you have a refund coming to you, contact our financial aid office. See your instructor for further details and student packets from the vendors.


Several tool vendors offer substantial discounts to current students of aviation training programs. You have several options to purchase your tools. The Snap-On tool kit may be purchased directly from the IWCC. Sets other than Snap-On are purchased directly from that vendor. **It is best to purchase prior to the beginning of the second semester to insure delivery in time for lab activities.**

Required Tools for Students entering Aviation Maintenance Program

-----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 5/16"
	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"		
	1/4"		
	9/32"	3/8" Drive Extension	3 inches long
	5/16"	3/8" Drive Extension	6 inches long
	11/32"	3/8" Drive Extension	11 inches long
	3/8"		
	7/16"	Half Round File	10 inches long
	1/2"	Mill File	10 inches long
	9/16"	Adjustable Jaw File Handle	standard 4 1/2" long 1" dia.
1/4 inch Drive, 12 Point Shallow Sockets	3/16"	File cleaner brush	std. 7 1/2" long
	7/32"	Long Nose Pliers with cutter	2 1/4" Jaw-- 8" overall length
	1/4"	Combination Slip Joint Pliers	6 7/16" long
	9/32"	Duck Bill Pliers	overall length 7 3/4"
	5/16"	Diagonal Cutting Pliers	Overall length 5"
	11/32"	Diagonal Cutting Pliers	Overall length 6 5/16"
	3/8"	Standard Needle Nose Pliers	Overall length 6"
	7/16"		
	1/2"		
	9/16"		
3/16"			
3/8 inch Drive 12 Point Shallow Sockets	1/4"	Standard Hex Wrench Set	0.028"
	5/16"	"Allen Wreches" consisting of the following sizes	
	3/8"		
	7/16"		
	1/2"		
	9/16"		0.035"
	5/8"		0.050"
	11/16"		1/16"
	3/4"		5/64"
	13/16"		3/32"
	7/8"		7/64"
			1/8"
			9/64"
			5/32"
		3/16"	
		7/32"	
		1/4"	
		5/16"	
		3/8"	



Aviation Style Cutting Shears "Aviation Snips"	Red Handle—left hand cut	Ball Peen Hammer	8 oz
	Green Handle—right hand cut	Plastic Tipped Hammer	16 oz wt.
	Yellow Handle--Straight cut	Pin Punch	3/32"
Ignition 15°/60° Offset Wrench Set	1/8—1/8"		1/8"
	5/32—5/32"		5/32"
	3/16—3/16"		3/16"
	15/64—1/4"		7/32"
	1/4—15/64"		1/4"
	9/32—5/16"		5/16"
	5/16—1/4"	Center Punch	5/16 hex size 5" long
	11/32—3/8"	Pocket Magnifier	Multi Lens
	3/8—11/32"	Telescopic Magnetic Pen style Pick up tool	
	Reversible Wire Twister/Cutters	6 <u>or</u> 9 inch pliers with overall length of 8 1/2" to 10 1/2"	
True Flush Cut (tapered head) Electrical Service Cutter	Overall length 4 7/16 inches Cutting capacity AWG#17	Open end Angled 30° and 60° Wrenches	3/8"
Scribe/pick	straight end and 90° end		7/16"
Ratcheting Soft Grip Stubby Screwdriver handle	Overall (total) length 4 1/2" shank length 2"		1/2"
Hex Shank Screwdriver Bit	No. 2 Phillips		9/16"
Hex Shank Screwdriver Bit	standard size flat bit		5/8"
			11/16"
			3/4"
Reversible Blade Screwdriver with:	9/32 and 13/64 flat tip rev. bit #1 and #2 Phillips rev. bit	Combination Wrench with 12 pt box end	7/32"
Combination Measuring Set	12 inch Rule with Square/90 head—Center Head and Protractor Head		1/4"
6" Steel Rule	Graduated in 1/32 and 1/64"		5/16"
Inspection Mirror 1 1/4 dia.	closed length 10" ext. length 14"		11/32"
Explosion Proof Flashlight		Short handle Combination Wrench with Ratcheting Box end	3/8"
Feeler Gauge	25 blades .0015, .002 to .025" .001" increments.		7/16"
			1/2"
			9/16"
			5/8"
			11/16"
			3/4"
			13/16"
			7/16"
			15/16"
			1"
		3/8 inch Drive Crowfoot Wrenches	3/8"
			7/16"
			1/2"
			9/16"
			5/8"
			11/16"
			3/4"
			13/16"
			7/16"
			15/16"
			1"

<p>Tool Box No larger than 4,300 cubic inch carrying cap. all drawers must be shadowed for above tools.</p>	<p>Recommended: Snap-On KMC18062N with eight (8) drawers</p>	
<p>We Recommend 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</p>		