PORTLAND COMMUNITY COLLEGE AVIATION MAINTENANCE TECHNOLOGY

TOOL AND SUPPLIES LIST

- This list is for a minimum AMT Tool Set.
- Keep a separate copy of this list, with quantity and cost, as an inventory check list for insurance purposes.

SOCKET WRENCH SET, 1/4" DRIVE - (12 point)

Must contain at least the following items:

RATCHET HANDLE, 1/4" Drive (fine tooth preferred)	
EXTENSION, 1/4" Drive, 3" Lo	ng
EXTENSION, 1/4" Drive, 6" Lo	ng
SOCKET, 1/4" Drive, Shallow	3/16"
SOCKET, 1/4" Drive, Shallow	7/32"
SOCKET, 1/4" Drive, Shallow	1/4"
SOCKET, 1/4" Drive, Shallow	9/32"
SOCKET, 1/4" Drive, Shallow	5/16"
SOCKET, 1/4" Drive, Shallow	11/32"
SOCKET, 1/4" Drive, Shallow	3/8"
SOCKET, 1/4" Drive, Shallow	7/16"
SOCKET, 1/4" Drive, Shallow	1/2"

SOCKET WRENCH SET, 3/8" DRIVE - (12 Point)

Must contain at least the following items:

RATCHET HANDLE, 3/8" Drive (fine tooth preferred)
EXTENSION, 3/8" Drive, 3" Long
EXTENSION, 3/8" Drive, 6" Long
UNIVERSAL JOINT, 3/8" Drive
ADAPTER, 3/8" To 1/4" Drive
ADAPTER, 1/4" To 3/8" Drive
SOCKET, 3/8" Drive, Shallow 3/8"
SOCKET, 3/8" Drive, Shallow 7/16"
SOCKET, 3/8" Drive, Shallow 1/2"
SOCKET, 3/8" Drive, Shallow 9/16"
SOCKET, 3/8" Drive, Shallow 5/8"
SOCKET, 3/8" Drive, Shallow 11/16"
SOCKET, 3/8" Drive, Shallow 3/4"
Drive bit holder, 3/8" drive, 1/4" Hex (for replaceable screwdriver bits)
SPEEDER WRENCH, 3/8" Drive
(also called a speeder, or speed handle.)

PLIERS

<u>"</u> CHANNEL LOCK" style - 10"
DUCK BILL - 8"
NEEDLE NOSE - 6"
DIAGONAL CUTTER, Flush type - 8"
DIAGONAL CUTTER, Full-flush type– 6"
COMMON SLIP JOINT - 8"
VICE GRIP" style - 6"

COMBINATION WRENCH SET, 12-point box end

WRENCH, Combination, 5/16"
WRENCH, Combination, 11/32"
WRENCH, Combination, 3/8"
WRENCH, Combination, 7/16"
WRENCH, Combination, 1/2"
WRENCH, Combination, 9/16"
WRENCH, Combination, 5/8"
WRENCH, Combination, 11/16"
WRENCH, Combination, 3/4"
WRENCH, Combination, 13/16"
WRENCH, Combination, 7/8"

MEASURING TOOLS

OUTSIDE MICROMETER, 0-1" range, with Vernier scale graduated to
0001" (not digital).

_____DIAL CALIPER, (not digital or plastic) graduated to .001"

_____MACHINIST'S SQUARE, sliding head with spirit level,

includes 12" scale with 1/8",1/16" and 1/32", 1/64"

graduations.

_____SCALE, 6" specification 5R (1/10", 1/100", 1/32", and 1/64" graduations) _____STEEL TAPE RULE, 24 ft. minimum

MULTIMETER, (digital, diode check, 10-amp circuit protection preferred)

INSPECTION TOOLS

INSPECTION MIRROR (approx. 2" size; round or rectangular) FLASHLIGHT – Single LED only 10 POWER MAGNIFYING GLASS *

_____3 to 5 POWER MAGNIFIER should be 2 to 3-inch diameter

SCREWDRIVERS

- _____MAGNA TIP or equivalent approx. 8" long with four replaceable 1/4" hex Apex style tips. Ratcheting recommended. Tips should be the following:
 - _____#1 Phillips,
 - _____#2 Phillips (plus 4 extras),
 - _____small straight slot,
 - ____medium straight slot
- _____DZUS (special fastener) Quarter turn tool
- SCREWDRIVER SET 9 Piece minimum (must include straight slot and Phillips. Blade lengths should range from 3" to 12")
- _____STRAIGHT SLOT STUBBY- approx. 1" long blade, 1/4" blade width (may be included in above set)
 - _____PHILLIPS STUBBY- approx. 1" blade length with #2 tip (can be included in above set)

METAL WORKING TOOLS

"Hammer I	blow" CENTER PUNCH – Required
Auto	matic CENTER PUNCH - Optional
SCRIBE (on	e 90-degree end & one straight end)
HACK SAW	FRAME, 12"
Blac	de, 18 tpi
Blac	de, 24 tpi
Blac	de, 32 tpi
FILE, flat, s	mooth, single cut, 8"
FILE, flat, m	nedium, double cut, 8"
FILE, Round	l, smooth, 8"
FILE HAND	ES, Wood or plastic (One for each file)
FILE CARD	and BRUSH
PIN PUNCH	l, sized in inches - 1/16, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16.

SAFETY EQUIPMENT

MECHANIC'S GLOVES
WELDING GLOVES, all leather, gauntlet-type *
RESPIRATOR, Half-face, Organic Vapor/Dust, activated charcoal type,
similar to 3M-4251, with storage bag.
DUST MASK, disposable
HEARING PROTECTION, Ear-muff style and Ear Plugs *
EYE PROTECTION must meet ANSI Z87.
Clear lens, non-tinted. Over glasses style for prescription lens/frames or
prescription lens/frames meeting ANSI Z87.

BALL PEEN HAMMER - 12 oz. DEAD BLOW HAMMER - 10 to 16 oz., soft faced, (no exposed metal) MAGNETIC PICK UP TOOL, Telescoping MECHANICAL FINGERS (flexible pick-up tool with spring jaws) HEX KEY WRENCH SET (Allen wrench) fractional, .050" to 3/16" range WIRE STRIPPERS, 10 – 22 AWG range, (heavy duty, automatic preferred) TERMINAL CRIMPING TOOL, 10 – 22 AWG, (ratcheting style preferred) TIRE VALVE CORE TOOL, Low profile

TOOLBOX

TOOLBOX

- Top box

MAXIMUM dimensions -Width - 26" -Height - 20" -Depth - 12"

- NO Bottom or Roller box

_____CABLE or CHAIN with LOCK (used to secure boxes, top or roller style, in designated toolbox storage areas.)

SUPPLIES

_____Computer or Tablet, Windows or Android OS recommended _____1/4" GRAPH PAPER

_____COLORED HIGHLIGHTING MARKERS

_____COLORED PENCILS or CRAYONS

_____#2 PENCILS

______"ULTRA FINE POINT" PERMANENT MARKER, "Sharpie" style (used to mark sheet metal) *

_____CLIP BOARD

_____PENCIL COMPASS

_____PLASTIC PROTRACTOR

_____CALCULATOR, must be non-programmable (scientific, with inverting capability) for use during tests

* Indicates tools or supplies that are available in the Rock Creek Bookstore.