

# PIA Pittsburgh Main Campus – Tool Requirements

The tools listed here may be purchased from any source. As a service to its students, PIA permits several vendors to visit the school and address new students concerning their tool needs. Acquisition of the tools listed is a requirement for successful progress. Students who do not obtain the required tools at the times indicated may be sent home by their respective instructors and will not be permitted to reenter school until they have acquired the prescribed tools.

The student must possess the tools listed on the first day of the quarter indicated. These are new tools, which MUST be acquired for each quarter of study. Some tools used, particularly in later terms, are those previously purchased by the student, and are not listed here. The student may obtain an inventory of all tools required for a particular quarter of study from the appropriate instructor.

## FIRST QUARTER

- Soldering pencil, 25 watt, grounded tip

## SECOND QUARTER

- Allen wrench set (up to 5/16")
- Allen wrench set (up to 5/16") Combination wrench set (up to 1")
- Flashlight
- Hammer, soft face, 12-oz
- Hemostat
- Inspection mirror
- Multimeter  
*See approved multimeter list*
- Pliers, 6" combination (slip-jaw)
- Pliers, 6" diagonal cutters
- Pliers, fine needle nose
- Pliers, duck bill
- Pliers, round nose
- Scale, 6" steel
- Screwdriver, common, 4" shank
- Screwdriver, common, 6" shank
- Screwdriver, Phillips, #1 x 3"
- Screwdriver, Phillips, #2 x 4"
- Ratchet, 1/4" Drive
- Socket set, 1/4" drive, 12 point, with 6" extension & bits
- Toolbox (9 1/2"H x 20"W x 8 1/2"D)
- Tweezers, curved tip
- Wire strippers

## THIRD QUARTER

- Crescent wrench, 4-6"
- Ear Plugs
- Pocket knife
- Screwdriver, common, stubby 3/16" x 1 1/2"
- Screwdriver, Phillips, stubby 3/16" x 1 1/2"
- Screwdriver set, miniature or jewelers

- Mini Grabber test leads

## FOURTH QUARTER (AMT)

- Adapter, 1/4" to 3/8"
- Adapter, 3/8" to 1/4"
- C-Clamps (2) 4 in.
- Crows foot set 3/8" to 3/4", 3/8 Drive
- Cut-proof Mechanics Gloves
- Extension bar, 3/8" x 6"
- Feeler gauge set
- Magnet, pick-up
- Inspection magnifier, 10X
- Screwdriver, common, 3/8" x 12"
- Socket set, 3/8" drive
- Speed handle, 3/8" drive

## FOURTH QUARTER (AET)

- Alignment tool kit
- Inspection magnifier 10X
- Pliers, flush cut

## FIFTH QUARTER (AMT)

- Acid Brush
- Aviation snips, straight
- Cold Chisel, 1/4" Flat
- Dial caliper, 0 to 6"
- Drill bits #5, 10, 13, 18, 21, 30, 40
- Drill set, 10-piece, standard
- File handles (3)
- File, half round, 8"
- File, mill (bastard cut) 10"
- File, mill (bastard cut) 6"
- Hardware Gauge
- Hammer, ball peen, 12 oz.
- Knife, putty, 1 1/2"
- Needle, curved
- Needle, straight

- Nibbling tool
- Paint Brush, 2 inch
- Punch, center
- Punch, pin, 3/32"
- Punch, pin 1/8"
- Punch, pin 5/32"
- Respirator-
- Scale, 12", 1/64" increments
- Scissors, basic 3-4"
- Square, Combination, 12"

## FIFTH QUARTER (AET)

- Extractor, integrated circuit chip

## SIXTH QUARTER (AMT)

- Ignition wrench set

## SIXTH QUARTER (AET)

- Pliers, ignition
- Scribe
- Pine Vise
- Tweezers, fine point #5

## SEVENTH QUARTER (AMT)

- Welding Goggles-Shade 5 Welding
- Gloves
- Welding tips

## SEVENTH QUARTER (AET)

- None

### ***Approved Multimeter Models***

- AET ONLY  
Fluke 177 Multimeter
- AMT & AET  
Fluke 179 Multimeter  
Amprobe 34XR-A  
Amprobe 38XR-A

# PIA Pittsburgh Main Campus – Kit & Supplies Requirements

## **FIRST QUARTER**

- Calculator, (suggested TI-30XIIS),  
Drafting kit
- Safety glasses  
(OSHA approved Z-87 code)

## **SECOND QUARTER**

- Cotton Scalp Cap
- Masking Tape (3/4" - 1")
- Multimeter, digital,  
with Temperature Probe
- Solderless Connector Kit
- Wire and Terminal Soldering Kit

## **THIRD QUARTER**

- Ear Plugs or other Hearing Protection

## **FOURTH QUARTER (AMT)**

- None

## **FIFTH QUARTER (AMT)**

- Acid brush
- Marker, blue or red
- Paint brush, 2"
- Panel Fastener Kit

## **SIXTH QUARTER (AMT)**

- None

## **SEVENTH QUARTER (AMT)**

- Composite kit
- Gloves
- Welding Goggles
- Welding Tip Cleaner

## **FOURTH QUARTER (AET)**

- AM/FM Radio Kit
- Coax Cable Kit
- Soldering Practice Kit

## **FIFTH QUARTER (AET)**

- None

## **SIXTH QUARTER (AET)**

- None

## **SEVENTH QUARTER (AET)**

- None