Equipment List

The list below are the tools needed for setting up a workstation for training Certified IPC Trainers to all modules of IPC’s Rework, Repair and Modification Training and Certification Program.

The tools listed are, in most cases, generic in nature and any tool that will do the job can be used.

**Individual assets:**
Soldering system with the following handpieces (may be one system or individual):
- Soldering Iron, Desoldering, Vacuum, Hot Air and Tweezer
- Light duty Lamp
- Hi Intensity quartz Halogen Lamps (single illuminator)
- Lead bending/forming tool(s)Christmas tree, 1/8w, 1/4w & 1/2w
- Circuit card holder/vise
- Mechanical wire strippers
- Straight Tweezers (4”)
- 45 degree tweezers (4”)
- Diagonal cutters (4”)
- Round nose cutters (4”)
- Chain nose pliers (4”, smooth jaw)
- Spudger (soldering aid, flat sided)
- Knife set for cutting traces and scraping
- Epoxy Mixing Pallet
- Microscope
- Dental picks

**Shared assets (two or more students share these assets):**
- Pin Gauges
- Eyelet Setting Tool/Jewelers Anvil
- Paste dispensers
- Mini-Solder pot
- Mini-Drill/Micro-Drill
- Caliper
- Oven
**Consumables**

1/16” Chisel tip  
1/32” Chisel tip  
1206 Chip removal tip for iron  
Tweezer tip for 0805 chip  
Hot air pencil tip small single jet  
Desoldering tips for desoldering using continuous and individual methods  
SOT removal tip for iron  
SOT dual jet tip for hot air pencil  
Hot air pencil flat end tip  
SOIC14 removal tip for iron  
Large and small cup shaped surface mount installation tip for iron  
.4” and .5’ blade tips for tweezer handpiece  
LQFP 44 tip for iron  
TQFP 100 removal tip for vacuum handpiece  
TQFP 100 removal tip for tweezer handpiece  
PLCC28 removal tips for tweezer handpiece  
Knife blade tip for iron 1/64” straight or bent conical tip for iron  

**Heat Shrink**

Wicking material (small, medium, large)  
Epoxy  
Various Ball mills  
Eyelets  
Adhesive for tacking jumper wires  
Jumper wire  
Dry film adhesive conductor repair kits  
Tape  
Coloring agent  
Wood sticks  
Sand paper 400 & 600 grit  
Acid brushes  
Paste dispensing needles, pink .023, Purple .020, Blue .016  
Flux  
Flux pens  
Solder .010, .020, and large gauge for tinning and bridge filling  
Solder Paste  
Cleaner  
Wipes  
Various filters, tip cleaners, for maintaining handpieces and stations  
Vacuum cups  
Conformal coating