

## 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