



## TRAINING

- Expert Training in the Latest Technologies
- Industry-Demanded Certifications

## PCB TECHNOLOGY

### Quality & Inspection

- IPC-A-610 Instructor & Operator Certification

### Soldering & Assembly

- IPC J-STD-001 Instructor & Operator Certification

### Bare Board Inspection

- IPC-A-600 Instructor & Operator Certification
- IPC-6012 Instructor & Operator Certification

### Rework & Repair

- IPC-7711 & IPC-7721 Instructor & Operator Certification

### Hand Soldering Skills

- Soldering Basics, Wires & Terminals, Lap Solder Joints, Through-Hole and Surface Mount Training

### PCB Fundamentals

- Component Identification
- Electrostatic Discharge

### PCB Design

- Essentials of PCB Design
- IPC Designer Certification

## COUNTERFEIT COMPONENTS

### IDEA-STD-1010

- Seminars & Workshops
- IDEA-STD-1010 Essentials
- SAE AS5553 Counterfeit Electronics

## CABLE & WIRE

### HARNESST TECHNOLOGY

### Quality & Inspection

- IPC-A-620 Instructor & Operator Certification

### Hands-On Labs

- Crimping & Harness Assembly Training

## TECHNICAL SUPPORT

- Manufacturing Start-Up
- Process Evaluation
- Subcontractor Qualification
- Equipment Evaluation
- Lead-Free, ESD, Process and Quality Audits

## IPC-7711/7721 CERTIFIED IPC SPECIALIST

IPC's THT and SMT Rework and Bare Board Repair Operator Training & Certification Program

### IPC-7711 AND IPC-7721

## COURSE DESCRIPTION

*Attendees must be experienced solderers.*

*Prior rework/repair skills are helpful.*

This is a 5-day, advanced course for anyone responsible for quality and reliability of reworked or repaired electronic assemblies. It is a comprehensive hands-on training program with 80% lab work.

The IPC-7711 is designed for soldered assembly rework— restoring PCB assemblies to their original drawings.

The IPC-7721 is designed for board repair— restoring a board's functional capability.

## WHO SHOULD BECOME CERTIFIED

Anyone involved in the rework of electronic components, or the repair of printed wiring boards should become certified.

*Attendees must be experienced solderers.*

## PREREQUISITES

- Proficiency in soldering
- Understanding of the English language, oral and written

## CLASS SIZE

Maximum number of students is limited to eight (8) to provide greater instructor interaction. Call early to reserve your space.

**eTRAINING** On-line training is available for some courses. Please inquire.

**ON-SITE TRAINING** Please call a training consultant and ask about customized course content, on-site training and training around your production schedules.

**REGISTRATION** For up to date pricing and more information on any of the EPTAC programs, or to enroll, please call us toll free or visit eptac.com.

**Toll Free:** 1-800-64-EPTAC

**email:** register@eptac.com

**Web:** eptac.com

## COURSE OUTLINE

### DAY 1

- Introduction to IPC-7711/7721
- Policies and Procedures
- Common Procedures
- Wire Splicing (Mesh, Wrap, Hook & Lap)
- Instructor Demonstration and Skills Development Lab

### DAY 2

- Conformal Coating Identification, Removal & Replacement
- Through-Hole Rework Procedures
- Instructor Demonstration and Skills Development Lab

### DAY 3

- Chip & MELF Removal/Installation and Localized Cleaning
- Instructor Demonstration and Skills Development Lab
- Gull Wing Procedures (SOIC, SOT, D-Pak, QFP)
- Instructor Demonstration and Skills Development Lab

### DAY 4

- J-Lead Procedures
- Instructor Demonstration and Skills Development Lab
- BGA Removal/Replacement Discussion
- Laminate Repair
- Instructor Demonstration and Skills Development Lab
- PWB Circuit Repair
- Instructor Demonstration and Skills Development Lab

### DAY 5

- Additional Lab Time
- Comprehensive Review
- Open Book Exam