



## 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

### Rework & Repair

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

### Hand Soldering Skills

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

### PCB Fundamentals

- Component Identification
- Electrostatic Discharge

## CABLE & WIRE

## HARNESS 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 TRAINER

IPC's Rework, Repair & Modification Instructor Training & Certification Program

### IPC-7711 AND IPC-7721

## COURSE DESCRIPTION

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 certification will allow you to conduct operator training at your company.

Students must be experienced solderers. Prior rework/repair skills is helpful.

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

This is an advanced course. Anyone responsible for quality and reliability of reworked or repaired electronic assemblies should become certified— including trainers, quality supervisors, engineers and manufacturing supervisors with assembly responsibilities.

## WHAT STUDENTS RECEIVE

Everyone who successfully completes the program will receive instructional materials necessary for conducting Certified IPC Specialist Training:

- IPC-7711/7721
- An Instructor Guid
- Certified IPC Specialist Exams
- Course visuals on CD ROM
- IPC Certificate of Training

## PREREQUISITES

IPC-7711/7721 Certified IPC Trainer is an advanced hands-on course that requires ample soldering skills. Candidates should have substantial soldering/electronics assembly experience, and should possess adequate soldering ability.

## CLASS SIZE

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

## 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
- Through-Hole Rework Procedures
- Instructor Demonstration and Skills Development Lab

### DAY 2

- Chip & MELF Removal/Installation and Localized Cleaning
- Instructor Demonstration and Skills Development Lab
- SOIC, SOT and Gull Wing Procedures
- Instructor Demonstration and Skills Development Lab
- J-Lead and QFP Procedures
- Instructor Demonstration and Skills Development Lab

### DAY 3

- BGA Removal/Replacement Discussion
- Equipment Selection
- Conformal Coating Identification, Removal & Replacement

### DAY 4

- PWB Circuit Repair
- Instructor Demonstration and Skills Development Lab
- Laminate Repair
- Instructor Demonstration and Skills Development Lab

### DAY 5

- Additional Lab Time
- Comprehensive Review
- Roles, Rules and Responsibilities of an IPC Instructors
- Open and Closed Book Exams

**MATERIALS** For each class, all the necessary tools and materials will be supplied. Students are welcome to bring their own documents if they wish.

**LOCATION** Classes are held at EPTAC's Corporate Training Center located just 35 miles from Boston and at locations throughout the US and Canada.

**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.

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