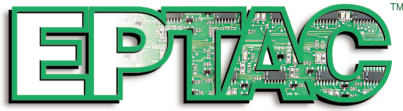




Training Center

- IPC-A-610 ■ IPC-A-600 ■ J-STD-001
- IPC-7711 ■ IPC-7721 ■ IPC-A-620



C O R P O R A T I O N

**CORPORATE TRAINING CENTER**

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## CONSULTANTS TO THE ELECTRONICS INDUSTRY

- MANUFACTURING START-UP
- PROCESS EVALUATION
- SUBCONTRACTOR QUALIFICATION
- EQUIPMENT EVALUATION
- LEAD-FREE, ESD, PROCESS AND QUALITY AUDITS

## THE LEADER IN HI-TECH 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 INSTRUCTOR & OPERATOR CERTIFICATION  
IPC-7721 INSTRUCTOR & OPERATOR CERTIFICATION
- **HAND SOLDERING SKILLS**  
SOLDERING BASICS, THROUGH-HOLE & SURFACE MOUNT TRAINING

### CABLE & WIRE HARNESS TECHNOLOGY

- **QUALITY & INSPECTION**  
IPC-A-620 INSTRUCTOR & OPERATOR CERTIFICATION
- **HANDS-ON LABS**  
SOLDERING, CRIMPING & HARNESS ASSEMBLY TRAINING

### FIBER OPTICS TECHNOLOGY

- **INSTALLER & TECHNICIAN CERTIFICATION**
- **FUNDAMENTALS**
- **TERMINATIONS & CLEANING**

## IPC-7711 CERTIFIED IPC SPECIALIST

IPC's Through-Hole and Surface Mount Rework Operator Training & Certification Program

### IPC-7711

#### COURSE DESCRIPTION

Rework restores a product to original drawing requirements. IPC-7711 Certified IPC Specialist is the first formal training program specifically designed for soldered assembly rework.

In IPC's most comprehensive hands-on training program, students learn through a training experience that is more than 50% lab work. This five (5) day course includes general knowledge content and specific Through-Hole and Surface Mount rework procedures.

This course does not cover Repair.

#### WHO SHOULD BECOME CERTIFIED

Anyone involved in the rework of components should become certified.

#### WHAT STUDENTS RECEIVE

For each module, students will receive excerpts from IPC-7711. Students who successfully complete the certification requirements will receive an IPC Certificate of Training.

#### PREREQUISITES

IPC-7711 Certified Specialist Program 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 GENERAL KNOWLEDGE (REQUIRED)

Become familiar with the general requirements of component rework and bare board repair. Learn the various terms and definitions, techniques and methods available for wire, through-hole and surface mount component installation and removal along with the requirements for board level repair.

##### DAY 2 WIRING REWORK

Learn the proper tinning, stripping and splicing of wires when reworking electronic assemblies. Four different types of wire splicing are reviewed; mesh, wrap, hook and lap.

##### DAY 3 THROUGH-HOLE COMPONENT REWORK

Remove, using continuous vacuum, several axial, radial and DIP component configurations and then re-install these components to acceptable standards.

##### DAY 4 SURFACE MOUNT CHIP REWORK

Learn, using special soldering tips, tweezers and hot air methods, to easily remove and replace different sized chip and MELF type packaged components. Includes pad/land preparation.

##### DAY 5 SOT, GULL WING AND LEADED SURFACE MOUNT REWORK

Apply various methods for removal and replacement of SOT and SOIC (gull wing) components along with QFP and PLCC packaging in 50, 30 and 20 mil pitches. For removal, solder wrap, bridge fill and flux application methods with tweezers are taught along with hot air methods. For installation, drag soldering and point-to-point soldering are covered. Includes pad/land preparation.

**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.

**TOLL FREE: 1-800-64-EPTAC**

**FAX: 603-296-2377**

**E-MAIL: REGISTER@EPTAC.COM**

**WEB: EPTAC.COM**