



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 STANDARDS EXPERT (CSE)

IPC-7711 AND IPC-7721

COURSE DESCRIPTION

If you are looking at becoming a subject matter expert in IPC-7711/21, "Rework, Modification and Repair of Electronic Assemblies" without the need to provide any IPC Certification to others, then this is the program for you. As a CSE-Certified Standard's Expert, you have the opportunity to support your organization as a key subject expert on the IPC-7711/21, interfacing with a variety of functions within your firm and providing critical interpretation support of the standards, without the requirements carried under previous IPC Instructor Certifications.

This is a 5-day, advanced course for anyone responsible for quality and reliability of reworked or repaired electronic assemblies. Students will be attending a combination lectured and hands-on course, CSE students do not need to perform the hands-on workmanship. The lecture content will cover the information in the IPC J-STD-001 document and describes materials, methods and acceptance criteria for producing soldered electrical and electronic assemblies. The IPC-7711 is designed for soldered assembly rework-restoring PCB assemblies to their original drawings and the IPC-7721 is designed for board repair—restoring a board's functional capability.

Obtain a CSE Certification in one standard and, if you choose, add additional certifications in IPC-A-610, J-STD-001, IPC/WHMA-A-620, IPC-A-600, or IPC-6012. With three (3) CSE certifications, apply with the IPC to become a Senior Certified Standard's Expert.

WHO SHOULD BECOME CERTIFIED

This course is designed for individuals who are required to act as a subject matter expert for this standard but DO NOT need to conduct training.

PREREQUISITES

- Understanding of the English language, oral and written
- To qualify to take any CSE standard exam, each attendee must:
 1. Complete and Pass IPC's on-line Enhanced Policies and Procedures Exam, on your own outside of class
- To obtain CSE Certification, candidates must successfully pass:
 1. General Knowledge Exam, on-line, closed book, in class
 2. Standard Endorsement Exam, on-line, open book, in class.

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
- 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

- Open & Closed Book Exams

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