



## 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

# J-STD-001 CERTIFIED STANDARDS EXPERT (CSE)

## J-STD-001

### COURSE DESCRIPTION

If you are looking at becoming a subject matter expert in J-STD-001, "Requirements for Soldered Electrical & 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 J-STD-001, 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.

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 5-day program covers Wire and Terminals, Through-Hole and Surface Mount technology-in both lead and lead-free.

Obtain a CSE Certification in one standard and, if you choose, add additional certifications in IPC-A-610, IPC/WHMA-A-620, IPC-A-600, IPC-6012, or IPC-7711/7721. 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:
  - 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:
  - General Knowledge Exam, on-line, closed book, in class
  - Standard Endorsement Exam, on-line, open book, in class.

### CLASS SIZE

Maximum number of students is limited to ten (10) to provide greater instructor interaction. Call early to reserve your space.

### COURSE OUTLINE

#### DAY 1

- General
- Applicable Documents
- Materials Components and Equipment
- General Soldering and Assembly Requirements
- Cleaning and Residue Requirements
- Rework and Repair

#### DAY 2

- Wires and Terminal Connections (excluding Jumper Wires)
- Printed Board Requirements
- Coating, Encapsulation and Staking
- Witness Stripew

#### DAY 3

- Through-Hole Mounting and Terminations (with TH Jumpers)

#### DAY 4

- Surface Mounting of Components

#### DAY 5

- Program Review
- Open Book Exam
- Closed Book Exam

**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