



## 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

### PCB Design

- IPC Designer & IPC Advanced 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-A-600 CERTIFIED IPC TRAINER

IPC-A-600 Instructor / Inspector Training & Certification Program

### IPC-A-600

## COURSE DESCRIPTION

This 3-day, lectured course utilizes the images in the IPC-A-600 document to provide visual accept/reject criteria examples for all three classes of bare board fabrication and inspection. The IPC-A-600, "The Acceptability of Printed Boards", describes the preferred, acceptable, and nonconforming conditions that are either externally or internally observable on printed boards.

The IPC-A-600 specification is the focal point of this course and will be covered in its entirety. As part of the requirements for certification, students must score an 80% on the final examination.

## WHO SHOULD BECOME CERTIFIED

This is an advanced course. Anyone responsible for the quality and reliability of printed wiring board products should become certified. This includes quality supervisors, engineers, manufacturing supervisors, and users of printed wiring boards.

## WHAT STUDENTS RECEIVE

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

- IPC-A-6012
- CD-ROM containing CIS Course Visuals, Instructor Guide and Student Handouts
- IPC Certificate of Training

## PREREQUISITES

An understanding of electronic products and an understanding of the English language, both oral and written are all that is required to benefit from EPTAC's IPC-A-600 Certified IPC Trainer Program. ESL Students are encouraged to inquire.

## 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

#### Introduction

- General Overview
- Terms and Definitions
- Acceptance Criteria

#### Externally Observable Characteristics

- Board Edges
- Base Material Surface and Subsurface
- Solder Coatings and Fused Tin Lead
- Holes-Plated Through and Unsupported
- Printed Contacts
- Marking
- Solder Resist
- Dimensional Characteristics

### DAY 2

#### Internally Observable Characteristics

- Dielectric Materials
- Conductive Patterns
- Plated Through-Holes (General, Drilled, Punched)

#### Miscellaneous

- Flexible Printed Circuits
- Rigid - Flex Printed Boards
- Metal Core Printed Boards
- Flush Printed Boards
- Cleanliness Testing
- Solderability Testing
- Electrical Integrity
- Instructor Skills

### DAY 3

- Course Summary/Review
- Open Book Examination
- Closed Book Examination
- Instructor/Student Conference
- Wrap-Up

**MATERIALS** For each classroom course, all the necessary tools and materials will be supplied. Students are welcome to bring their own documents if they wish. For eTraining, students are responsible for having the required materials at class time.

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

**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

**Fax:** 603-296-2377

**email:** register@eptac.com

**Web:** eptac.com