



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-A-610 CERTIFIED IPC TRAINER WITH OPTIONAL LAB

IPC-A-610 Instructor Training & Certification Program

IPC-A-610

COURSE DESCRIPTION

This 4-day, lectured course utilizes the images in the IPC-A-610 document to provide visual accept/reject criteria examples for all three classes of assembly production—for both lead and lead-free. The IPC-A-610, "The Acceptability of Electronic Assemblies", is the most widely used inspection specification for the PWB assembly industry.

The IPC-A-610 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 at least an 80% average and no single score less than 70% on the final examinations.

Interactive PCB Inspection Lab

This is an optional, 1-day course intended for any employee who will be inspecting printed circuit assemblies or any employee who wants to improve or reinforce their observation and inspection skills of printed circuit assemblies. This course utilizes lectures, visual acuity exercises, and physical assemblies to provide the students with an experience in visually inspecting printed circuit assemblies.

WHO SHOULD BECOME CERTIFIED

This is an advanced course. Anyone responsible for the quality and reliability of electronic assemblies should become certified. This includes trainers, quality supervisors and engineering 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:

- Course Visuals on CD-ROM
- The IPC-A-610 and an Instructor Guide
- IPC-T-50 Terms and Definitions
- Certified IPC Specialist Exams
- IPC Certificate of Training

PREREQUISITES

An understanding of the Electronics Manufacturing Process and an understanding of the English language, both oral and written are all that is required to benefit from EPTAC's IPC-A-610 Certified IPC Trainer Program. ESL Students are encouraged to inquire.

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

email: register@eptac.com

Web: www.eptac.com

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 -Establishing and Maintaining Program Integrity
- Foreword, Applicable Documents and Handling
- Hardware
- Soldering

DAY 2

- Terminal Connections
- PCBs and Assemblies
- Through-Hole Technology

DAY 3

- Surface Mount Assemblies
- Component Damage
- Discrete Wiring
- Instructor Skills and Responsibilities

DAY 4

- High Voltage
- Course Summary/Review
- Open Book Examination
- Closed Book Examination
- Instructor/Student Conference

DAY 5 - OPTIONAL INTERACTIVE PCB INSPECTION LAB

This optional, 1-day lab utilizes, lectures, visual acuity exercises, and physical assemblies to provide the students with an experience in visually inspecting printed circuit assemblies

Introduction

- Terms and definitions
- Why inspect
- How to inspect

Observation Skills Practice 1

The Needs of Visual Inspection

- Good Visual Acuity
- The ability to detect differences
- Review of Basic Manufacturing Knowledge
- Systematic approach
- Patience, Discipline, Consistency

Inspection Lab 1: Through-Hole Board

- Review results of Lab 1
- Discuss improvements

Observation Skills Practice 2

Inspection Lab 2: Surface Mount Board

- Review results of Lab 2
- Discuss improvements

Observation Skills Practice 3

Inspection Lab 3: Mixed Technology Board

- Review results of Lab 3
- Discuss improvements
- Instructor to grade results

Wrap up

- Certificate of Attendance