eptac
TRAIN. WORK SMARTER. SUCCEED.

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 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 SPECIALIST WITH OPTIONAL LAB
IPC-A-610 Operator and Inspector Training & Certification Program
IPC-A-610

INCLUDES LEAD AND LEAD-FREE CRITERIA

COURSE DESCRIPTION

This course is for anyone needing to obtain an IPC-A-610 Specialist Certification. The lecture will review the content of the IPC-A-610 standard and provide explanation of the accept/reject criteria to be applied to their visual inspection process.

Lectures will be covered over a 4-day period, with testing daily on the modules covered that day. Class length will vary daily based on the lectures covered and the testing time needed by each attendee.

Attendees must successfully complete open book exams in all 7 modules to obtain a full 610 Specialist certification.

All instruction and communication within the class will be conducted in English, and attendees need to have the ability to understand both spoken and written English to fully engage with the course material and complete the exams.

Recertification is required every 24 months.

Optional Interactive PCB Inspection Lab (additional fee applies)
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 course is for anyone responsible for the quality and reliability of electronic assemblies. This includes engineers, quality supervisors, inspectors and manufacturing personnel responsible for quality assurance.

PREREQUISITES
- Understanding of the Electronics Manufacturing Process
- Understanding of the English language, oral and written

CLASS SIZE

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

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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

TOPICS COVERED DAYS 1-4

MODULE 1: Foreword, Applicable Documents and Handling (Mandatory for all CIS participants)

MODULE 2: Soldering and High Voltage

MODULE 3: Component Damage & Printed Board Assemblies

MODULE 4: Terminal Connections (Recommended Module 2)

MODULE 5: Through-Hole Technology (including Jumper Wires) (Recommended Modules 2 & 3)

MODULE 6: Surface Mount Assemblies (including Jumper Wires) (Recommended Modules 2 & 3)

MODULE 7: Hardware

INSTRUCTOR/STUDENT CONFERENCE (as needed)

DAY 5 - OPTIONAL INTERACTIVE PCB INSPECTION LAB (additional fee applies)

This optional, 1-day lab utilizes, lectures, visual acuity exercises, and physical assemblies to provide the students with a practical 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