

CONSULTANTS TO THE ELECTRONICS INDUSTRY

- MANUFACTURING START-UP
- PROCESS EVALUATION
- SUBCONTRACTOR QUALIFICATION
- EQUIPMENT EVALUATION
- LEAD-FREE, ESD, PROCESS AND QUALITY AUDITS

THE LEADER IN HI-TECH 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 INSTRUCTOR & OPERATOR CERTIFICATION
IPC-7721 INSTRUCTOR & OPERATOR CERTIFICATION
- **HAND SOLDERING SKILLS**
SOLDERING BASICS, THROUGH-HOLE & SURFACE MOUNT TRAINING



CABLE & WIRE HARNESS TECHNOLOGY

- **QUALITY & INSPECTION**
IPC-A-620 INSTRUCTOR & OPERATOR CERTIFICATION
- **HANDS-ON LABS**
SOLDERING, CRIMPING & HARNESS ASSEMBLY TRAINING



FIBER OPTICS TECHNOLOGY

- **INSTALLER & TECHNICIAN CERTIFICATION**
- **FUNDAMENTALS**
- **TERMINATIONS & CLEANING**

IPC-A-600 CERTIFIED IPC TRAINER

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

IPC-A-600

COURSE DESCRIPTION

This three 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 certification and examination will receive all the materials necessary for conducting Operator Training:

- IPC-A-600 "The Acceptability of Printed Boards"
- IPC-A-6012 "Qualifications and Performance Specifications for Rigid Printed Boards"
- Course Visuals on CD-ROM
- Instructor Guide
- Instructor Test Board
- Operator Course Exams
- An 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
- Instructor Skills

DAY 2

Internally Observable Characteristics

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

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 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**
E-MAIL: **REGISTER@EPTAC.COM**
WEB: **EPTAC.COM**