



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

- 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

ADVANCED MICRO SMT SOLDERING

Surface Mount Micro Hand Soldering Program

J-STD-001 / IPC-A-610 / IPC-7711

COURSE DESCRIPTION

If you are working with the smallest of small, surface mount components in either placement or rework of, this is the course for you.

This two (2) day Advanced Surface Mount Micro Hand Soldering program focuses on the proper techniques for placement, soldering and rework of fine pitch surface mount components such as chip components ranging in size from 0603, 0402, 0201, 01005, as well as multi-leaded extra fine pitch devices.

This course is an extensive and repetitive "hands-on" experience. With approximately 75% of the time spent doing, students experience the technology first hand and practice the procedures again and again to perfect their skills. Soldering will be performed in both a lead and lead-free environment to gain additional experience and understanding of the impact to soldering with these alloys.

In addition, discussions covering the importance of micro component placement, making electrical connections with a soldering iron or hot air gasses, reviewing fluxes, solder selection and the soldering process round out the students understanding of the procedures, tools and materials involved.

WHO SHOULD ATTEND

This is an advanced program for students who have extensive experience and training in surface mount soldering.

PREREQUISITES

Verification of prior certification and/or current soldering skills will be requested to confirm your preparedness to attend this course prior to enrollment. This course is for advanced solderers.

An understanding of the English language, both oral and written is required to benefit from EPTAC's Advanced Surface Mount Micro Hand Soldering Certification Program. ESL Students are encouraged to inquire.

CLASS SIZE

Maximum number of students is limited to five (5) in order to provide greater instructor interaction and a complete hands-on experience. Call early to reserve your space.

COURSE OUTLINE

Day 1

- Review General Manufacturing and Solder Information
- Safety and MSDS's
- Review of Proper Preparation for Solder Assembly Techniques
- Electrostatic Discharge (ESD)
- Discussion of Flux and Solder Chemistries
- Tools and Material Selection
- Component Identification
- Quality Requirements for Solder Connections
- Introduction to Micro Hand Soldering Process
- Discussion of Micro Hand Soldering Methods
- Practical Session – Soldering Components and Pads
- Review of Practice Board's Quality

Day 2

- Perform Soldering on Test Board / Review of Test Board's Quality
- Discussion on Proper Preparation of Wire for Soldering
- Practical Session – Soldering 40 AWG Wire to Components and Pads
- Review of Practice Board's Quality
- Perform Soldering on Test Board / Review of Test Board's Quality
- Discussion of Proper Removal of SMT parts and Wire
- Practical Session – SMT Rework
- Review of Practice Board's Quality
- Perform SMT Rework on Test Board / Review of Test Board's Quality

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