



### Santa Clara, California

Please contact us for additional locations and on-site training opportunities in your area.

#### 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 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

Become certified to train your workforce to identify accept/reject criteria for all three classes of assembly production.

Feb 23 - 26  
Nov 2 - 5

#### IPC-A-610 Certified IPC Specialist

Learn the accept/reject criteria for all three classes of assembly production as published in the most widely used inspection specification, IPC-A-610.

Feb 23 - 25  
Jun 24 - 26  
Nov 2 - 4

#### Recertifications (Req. 24 mos.)

Feb 23 - 25  
Jun 24 - 26  
Nov 2 - 4

#### Interactive PCB Inspection Lab (optional)

Hands-on inspection of real PCB assemblies and application of accept/reject criteria.

Nov 6

#### J-STD-001 Certified IPC Trainer

Acquire the skills, instructional materials and industry certification to deliver IPC's J-STD-001 Operator Training program.

Aug 10 - 14

#### J-STD-001 Certified IPC Specialist

Interpret the J-STD-001 specification in 5 one-day modules: Theory, Wires & Terminals, Through-Hole, Surface Mount and Inspection.

Feb 9 - 13  
Oct 26 - 30

#### IPC-A-620 Certified IPC Trainer

Become an expert in the quality standards of Wire, Cable and Harness, and be certified for inspection and instruction.

May 11 - 14

#### IPC-A-620 Certified IPC Specialist

Learn assembly requirements and accept/reject criteria for all three classes of cable and wire harness assembly.

Jan 12 - 15  
May 11 - 14  
Sep 21 - 24

#### Recertifications (Req. 24 mos.)

Jan 12 - 15  
May 11 - 14  
Sep 21 - 24

#### IPC-A-620 Hands On Labs (optional)

Additional day of hands-on labs in which students perform necessary procedures for building an entire wire harness assembly

Jan 16  
May 15  
Sep 25

#### IPC-6012 Certified IPC Trainer

Become an expert in the design, specifications, fabrication and inspection of printed circuit boards.

Jul 7 - 10  
Nov 16 - 19

#### IPC-6012 Certified IPC Specialist

Learn about the design, specifications, fabrication and inspection of printed circuit boards.

Jul 7 - 10  
Nov 16 - 19

#### Hand Soldering Certification

Introduces the basics of soldering, terms & definitions and equipment familiarization. Wires and Terminals, and Through-Hole Soldering and Rework is taught through hands-on construction and inspection of two Through-Hole boards. Students learn the accept/reject criteria for Surface Mount Assembly and Rework first hand through the construction, inspection and rework of a surface mount board.

#### Lead and Lead-free included.

Jan 5 - 9  
Apr 13 - 17  
Aug 31 - Sep 4  
Dec 7 - 11

#### IPC Certified Interconnect Designer

This course delves into design and fabrication issues that go beyond the fundamentals of layout, component placement and routing consideration to understanding fabrication materials, testing of not only electrical, but physical aspects of boards, electrical and signaling issues, complex component mounting strategies and requirements, and fabrication considerations for high end circuitry.

Mar 3 - 5  
Sep 18 - 20

#### IPC Advanced Certified Interconnect Designer

This course delves into design and fabrication issues that go beyond the fundamentals of layout, component placement and routing consideration to understanding fabrication materials, testing of not only electrical, but physical aspects of boards, electrical and signaling issues, complex component mounting strategies and requirements, and fabrication considerations for high end circuitry.

Sep 18 - 20

#### IDEA Counterfeit Component Workshop

A basic introduction to Counterfeit Mitigation and to IDEA-STD-1010, including methods for the visual detection of counterfeit and standard characteristics through a hands-on workshop. A unique opportunity to examine real components with live, on-site microscopic magnification to obtain experience in the visual inspection techniques of IDEA-STD-1010 and learn how to detect counterfeit components firsthand.

Dec 17

#### IDEA-STD-1010 Essentials

Develop an in-depth knowledge of the IDEA-STD-1010 "Acceptability of Electronic Components Distributed in the Open Market" standard and a thorough understanding of its contents, application and use in the component inspection counterfeit detection process.

Mar 19 - 20

Dates and locations are subject to change. Please call to check current dates and availability. Minimum enrollments are required for a class to be held.