



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

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-600 Certified IPC Specialist

IPC-A-600 "The Acceptability of Printed Boards"

Learn quality standards of PCBs and be certified for inspection of bare boards.

Jan 3 - 5	San Diego, CA
Jan 10 - 12	Schaumburg, IL
Mar 5 - 7	Manchester, NH
Mar 27 - 29	Minneapolis, MN
Apr 4 - 6	Toronto, ON
Apr 10 - 12	Seattle, WA
May 9 - 11	Manchester, NH
May 21 - 23	Watertown, CT
Jun 12 - 14	Santa Clara, CA
Jul 23 - 25	Toronto, ON
Jul 25 - 27	Palm Bay, FL
Aug 6 - 8	San Diego, CA
Aug 13 - 15	Schaumburg, IL
Aug 21 - 23	Minneapolis, MN
Sep 5 - 7	Watertown, CT
Sep 17 - 19	Manchester, NH
Sep 25 - 27	Seattle, WA
Oct 1 - 3	Toronto, ON
Oct 24 - 26	Palm Bay, FL
Nov 26 - 28	Manchester, NH
Dec 3 - 5	Minneapolis, MN

Recertifications (Req. 24 mos.)

Jan 3 - 5	San Diego, CA
Jan 10 - 12	Schaumburg, IL
Mar 5 - 7	Manchester, NH
Mar 27 - 29	Minneapolis, MN
Apr 4 - 6	Toronto, ON
Apr 10 - 12	Seattle, WA
May 9 - 11	Manchester, NH
May 21 - 23	Watertown, CT
Jun 12 - 14	Santa Clara, CA
Jul 23 - 25	Toronto, ON
Jul 25 - 27	Palm Bay, FL
Aug 6 - 8	San Diego, CA
Aug 13 - 15	Schaumburg, IL
Aug 21 - 23	Minneapolis, MN
Sep 5 - 7	Watertown, CT
Sep 17 - 19	Manchester, NH
Sep 25 - 27	Seattle, WA
Oct 1 - 3	Toronto, ON
Oct 24 - 26	Palm Bay, FL
Nov 26 - 28	Manchester, NH
Dec 3 - 5	Minneapolis, MN

IDEA Counterfeit Component Workshop

IDEA-TRN-2000 Inspection for

Visual Indicators of Counterfeit Parts

A basic introduction to Counterfeit Mitigation and to IDEA-STD-1010, including methods for the visual detection of counterfeit and substandard 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.

Apr 20	Schaumburg, IL
Jun 11	Peabody, MA
Jun 22	San Diego, CA
Jul 20	Seattle, WA
Sep 5	Toronto, ON
Nov 9	Palm Bay, FL
Dec 11	Santa Clara, CA

IDEA-STD-1010 Essentials

IDEA-STD-1010 "Acceptability of Electronic Components Distributed in the Open Market"

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.

Feb 7 - 8	Peabody, MA
Feb 22 - 23	Toronto, ON
Mar 5 - 6	San Diego, CA
Mar 15 - 16	Palm Bay, FL
May 31 - Jun 1	Anaheim, CA
Jun 28 - 29	Santa Clara, CA
Aug 2 - 3	Peabody, MA
Sep 26 - 27	Minneapolis, MN
Oct 3 - 4	Schaumburg, IL
Oct 9 - 10	Anaheim, CA
Oct 30 - 31	Kansas City, MO
Dec 13 - 14	San Diego, CA

IPC-6012 Certified IPC Specialist

IPC-6012 "Qualification and Performance Specification for Rigid Printed Boards"

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

Feb 5 - 8	San Diego, CA
Feb 19 - 22	Palm Bay, FL
Mar 5 - 8	Toronto, ON
Mar 12 - 15	Minneapolis, MN
Mar 26 - 29	Santa Clara, CA
Apr 3 - 6	Manchester, NH
Apr 9 - 12	Schaumburg, IL
Jun 5 - 8	Anaheim, CA
Aug 13 - 16	Manchester, NH
Aug 20 - 23	Toronto, ON
Sep 17 - 20	Palm Bay, FL
Oct 16 - 19	Schaumburg, IL
Oct 22 - 25	Manchester, NH
Nov 6 - 9	San Diego, CA
Nov 13 - 16	Santa Clara, CA
Nov 27 - 30	Minneapolis, MN
Dec 3 - 6	Anaheim, CA

Recertifications (Req. 24 mos.)

Feb 5 - 8	San Diego, CA
Feb 19 - 22	Palm Bay, FL
Mar 5 - 8	Toronto, ON
Mar 12 - 15	Minneapolis, MN
Mar 26 - 29	Santa Clara, CA
Apr 3 - 6	Manchester, NH
Apr 9 - 12	Schaumburg, IL
Jun 5 - 8	Anaheim, CA
Aug 13 - 16	Manchester, NH
Aug 20 - 23	Toronto, ON
Sep 17 - 20	Palm Bay, FL
Oct 16 - 19	Schaumburg, IL
Oct 22 - 25	Manchester, NH
Nov 6 - 9	San Diego, CA
Nov 13 - 16	Santa Clara, CA
Nov 27 - 30	Minneapolis, MN
Dec 3 - 6	Anaheim, CA

IPC Certified Interconnect Designer

IPC-2221 "Generic Standard on Printed Board Design"

IPC-2222 "Sectional Standard on Rigid Organic Printed Boards"

This course goes beyond the fundamentals of component placement and track routing to encompass a complete understanding of all the elements that go into the development of a printed circuit board.

Feb 6 - 9	Seattle, WA
Mar 1 - 4	San Diego, CA
Mar 6 - 9	Santa Clara, CA
Apr 10 - 13	Manchester, NH
Apr 30 - May 3	Palm Bay, FL
May 1 - 4	Schaumburg, IL
May 22 - 25	Fredricksburg, VA
Jun 19 - 22	Seattle, WA
Sep 7 - 10	Santa Clara, CA
Sep 11 - 14	Toronto, ON
Oct 11 - 14	Rosemont, IL
Oct 30 - Nov 2	Anaheim, CA
Nov 8 - 11	Raleigh, NC

IPC Advanced Certified Interconnect Designer

IPC-2221 "Generic Standard on Printed Board Design"

IPC-2222 "Sectional Standard on Rigid Organic Printed Boards"

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 1 - 4	San Diego, CA
Apr 17 - 20	Toronto, ON
Aug 6 - 9	Manchester, NH
Sep 7 - 10	Santa Clara, CA
Sep 17 - 20	Longmont, CO
Oct 11 - 14	Rosemont, IL
Oct 30 - Nov 2	Anaheim, CA
Nov 8 - 11	Raleigh, NC
Nov 13 - 16	Seattle, WA

Dates and locations are subject to change. Please call to check current dates and availability. A minimum enrollment of seven (7) students is required for a class to be held.