



### 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

## Schaumburg, Illinois

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

### 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 18 - 21  
Jun 17 - 20  
Sep 9 - 12  
Dec 2 - 5

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

Feb 11 - 12  
Jun 3 - 4  
Aug 26 - 27  
Nov 18 - 19

### 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 19 - 21  
Jun 17 - 19  
Sep 9 - 11  
Dec 2 - 4

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

Feb 19 - 21  
Jun 17 - 19  
Sep 9 - 11  
Dec 2 - 4

### Interactive PCB Inspection Lab (optional)

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

Feb 22  
Jun 21  
Sep 13  
Dec 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.

Feb 4 - 8  
May 13 - 17  
Aug 19 - 23  
Nov 4 - 8

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

Feb 13 - 14  
Jun 5 - 6  
Aug 21 - 22  
Nov 20 - 21

### J-STD-001 Space Addendum Certified IPC Trainer (optional)

Feb 15  
Jun 7  
Aug 30  
Nov 22

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

Feb 15  
Jun 7  
Aug 30  
Nov 22

### 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 4 - 8  
May 13 - 17  
Aug 19 - 23  
Nov 4 - 8

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

Apr 17 - 19  
Oct 23 - 25

### J-STD-001 Space Addendum Certified IPC Specialist (optional)

Module 6 covering the 001 Space Addendum.

Feb 15  
Jun 7  
Aug 30  
Nov 22

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

Feb 15  
Jun 7  
Aug 30  
Nov 22

### IPC-A-620 Certified IPC Trainer

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

Mar 25 - 28  
Jul 15 - 18  
Sep 16 - 19  
Dec 9 - 12

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

Apr 15 - 16  
Oct 21 - 22

### IPC-A-620 Certified IPC Specialist

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

Mar 25 - 28  
Jul 15 - 18  
Sep 16 - 19  
Dec 9 - 12

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

Mar 25 - 28  
Jul 15 - 18  
Sep 16 - 19  
Dec 9 - 12

### 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

Mar 29  
Jul 19  
Sep 20  
Dec 13

### IPC-A-600 Certified IPC Trainer

Become an expert in the quality standards of printed circuit boards and be certified for inspection and instruction.

Jan 14 - 16  
Jun 26 - 28

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

Jan 14 - 16  
Jun 26 - 28

### IPC-A-600 Certified IPC Specialist

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

Jan 14 - 16  
Jun 26 - 28

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

Jan 14 - 16  
Jun 26 - 28

### IPC-6012 Certified IPC Trainer

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

Mar 11 - 14  
Oct 15 - 18

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

Mar 11 - 14  
Oct 15 - 18

### IPC-6012 Certified IPC Specialist

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

Mar 11 - 14  
Oct 15 - 18

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

Mar 11 - 14  
Oct 15 - 18

### IPC-7711/7721 Certified IPC Trainer

Become qualified to instruct operators in the required knowledge and skills for component rework and bare board repair.

Mar 18 - 22  
Jun 10 - 14  
Oct 28 - Nov 1

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

Mar 7 - 8  
Jun 24 - 25  
Oct 3 - 4  
Dec 16 - 17

### IPC-7711/7721 Certified IPC Specialist

Learn general requirements and practice damage-free removal and replacement techniques for wires and terminals, through-hole components and surface mount components. Develop advanced skills for repairing PWBs, including conductor/land repair, lifted conductor/land/pad repair and base material.

Mar 18 - 22  
Jun 10 - 14  
Oct 28 - Nov 1

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

Mar 7 - 8  
Jun 24 - 25  
Oct 3 - 4  
Dec 16 - 17

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.



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## Schaumburg & Rosemont, Illinois

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### IPC Certified Interconnect Designer

*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.*

Apr 22 - 25

### 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 17 - 20 . . . . Rosemont, IL

### 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 with 100 inspection points. 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 with over sixty components. **Lead and Lead-free included.***

Jan 21 - 25

Apr 1 - 5

May 6 - 10

Jul 22 - 26

Sep 23 - 27

Nov 11 - 15

### Recertifications

Jan 17

Apr 12

May 31

Aug 16

### Advanced Micro Hand Soldering Certification

Apr 10 - 11

Oct 1 - 2

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.

### IDEA Counterfeit Component Workshop

*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.*

Dec 19

### 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.*

Apr 8 - 9

### Crimp Terminations Certification

*EPTAC's Hand Crimp Termination Program*

Mar 6

Aug 15

Dec 18

### Electrostatic Discharge Training

*EPTAC's ESD Training Program*

Mar 5

Aug 14