



### 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-7711/7721 Certified IPC Specialist (CIS)

### IPC-7711 "Rework of Electronic Assemblies"

### IPC-7721 "Repair & Modification of Printed Boards and Electronic Assemblies"

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

#### IPC-7711/7721 CIS Certification

Jan 22 - 26 . . . San Jose	Jul 8 - 12 . . . . . Schaumburg, IL
Jan 22 - 26 . . . Toronto, ON	Jul 15 - 18 . . . . . Palm Bay, FL
Feb 12 - 16 . . . Manchester, NH	Aug 12 - 16 . . . Manchester, NH
Feb 19 - 22 . . . Palm Bay, FL	Aug 26 - 30 . . . San Jose, CA
Feb 19 - 23 . . . San Jose, CA	Oct 7 - 11 . . . . . Watertown, CT
Mar 4 - 8 . . . . . Schaumburg, IL	Oct 21 - 25 . . . San Jose, CA
Mar 4 - 8 . . . . . Watertown, CT	Oct 21 - 25 . . . Toronto, ON
Mar 11 - 15 . . . Toronto, ON	Oct 28 - Nov 1 . Manchester, NH
Apr 8 - 12 . . . . . San Jose, CA	Oct 28 - Nov 1 . Schaumburg, IL
Apr 22 - 26 . . . Minneapolis, MN	Dec 2 - 6 . . . . . Manchester, NH
Apr 22 - 26 . . . Manchester, NH	Dec 9 - 13 . . . Toronto, ON
Jun 3 - 7 . . . . . Manchester, NH	Dec 9 - 13 . . . Minneapolis, MN
Jun 10 - 14 . . . San Jose, CA	Dec 16 - 19 . . . Palm Bay, FL
Jun 10 - 14 . . . Toronto, ON	Dec 16 - 20 . . . San Jose, CA

#### IPC-7711/7721 CIS Recertification

Jan 30 - 31 . . . Manchester, NH	Jul 22 - 23 . . . . . Minneapolis, MN
Feb 5 - 6 . . . . . Palm Bay, FL	Jul 29 - 30 . . . . . San Jose, CA
Feb 15 - 16 . . . Toronto, ON	Aug 8 - 9 . . . . . Toronto, ON
Feb 29 - Mar 1 . Schaumburg, IL	Aug 19 - 20 . . . Manchester, NH
Mar 7 - 8 . . . . . Manchester, NH	Sep 4 - 5 . . . . . Schaumburg, IL
Mar 21 - 22 . . . Minneapolis, MN	Sep 23 - 24 . . . Manchester, NH
Mar 27 - 28 . . . San Jose, CA	Oct 2 - 3 . . . . . Manchester, NH
Apr 1 - 2 . . . . . Manchester, NH	Oct 3 - 4 . . . . . San Jose, CA
May 2 - 3 . . . . . Schaumburg, IL	Nov 18 - 19 . . . Palm Bay, FL
May 6 - 7 . . . . . Toronto, ON	Nov 25 - 26 . . . Manchester, NH
May 30 - 31 . . . Manchester, NH	Nov 25 - 26 . . . Schaumburg, IL
Jun 10 - 11 . . . Palm Bay, FL	Nov 25 - 26 . . . Toronto, ON
Jun 11 - 12 . . . Watertown, CT	Nov 25 - 26 . . . Watertown, CT
Jul 1 - 2 . . . . . Manchester, NH	

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.