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

CABLE & WIRE HARNESS TECHNOLOGY

**Quality & Inspection**
- IPC-A-620 Instructor & Operator Certification

**Hands-On Labs**
- Crimping & Harness Assembly Training

COUNTERFEIT COMPONENTS

**IDEA-STD-1010**
- Seminars & Workshops
- IDEA-STD-1010 Essentials
- SAE AS5553 Counterfeit Electronics

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-7711/7721 "Rework, Modification and Repair of Electronic Assemblies"**

*Learn industry-approved methods for rework, modification and repair of electronic assemblies.*

## IPC-7711/7721 CIS Certification

| | |
|---|---|
| Jan 25 - 29 .... Santa Clara, CA | Jul 19 - 23 ..... Watertown, CT |
| Feb 8 - 12 ..... Salem, NH | Aug 2 - 6 ..... Toronto, ON |
| Feb 22 - 26 ..... Toronto, ON | Aug 9 - 13 ..... Salem, NH |
| Mar 15 - 18 ..... Palm Bay, FL | Aug 16 - 20 ... Santa Clara, CA |
| Mar 22 - 26 .... Shoreview, MN | Aug 23 - 27 .... Shoreview, MN |
| Apr 5 - 9 ..... Salem, NH | Oct 4 - 8 ..... Watertown, CT |
| Apr 5 - 9 ..... Santa Clara, CA | Oct 18 - 22 .... Santa Clara, CA |
| Apr 19 - 23 ... Schaumburg, IL | Oct 18 - 22 ..... Toronto, ON |
| Apr 19 - 23 ..... Toronto, ON | Oct 25 - 29 ..... Salem, NH |
| Apr 26 - 30 .... Watertown, CT | Oct 25 - 29 ... Schaumburg, IL |
| May 24 - 28 ..... Salem, NH | Nov 8 - 12 ..... Shoreview, MN |
| May 24 - 28 ... Shoreview, MN | Nov 29 - Dec 3 ..... Salem, NH |
| Jun 7 - 11 ..... Santa Clara, CA | Dec 6 - 10 ..... Toronto, ON |
| Jun 7 - 11 ..... Toronto, ON | Dec 13 - 16 ..... Palm Bay, FL |
| Jul 12 - 16 .... Schaumburg, IL | Dec 13 - 17 .... Santa Clara, CA |

## IPC-7711/7721 CIS Recertification

| | |
|---|---|
| Jan 28 - 29 ..... Salem, NH | Jul 8 - 9 ..... Santa Clara, CA |
| Feb 4 - 5 ..... Shoreview, MN | Jul 8 - 9 ..... Schaumburg, IL |
| Feb 18 - 19 ... Schaumburg, IL | Jul 19 - 20 ..... Shoreview, MN |
| Feb 18 - 19 ..... Toronto, ON | Jul 28 - 29 ..... Salem, NH |
| Feb 22 - 23 ..... Palm Bay, FL | Sep 1 - 2 ..... Salem, NH |
| Mar 17 - 18 ... Santa Clara, CA | Sep 9 - 10 ..... Toronto, ON |
| Mar 30 - 31 ..... Salem, NH | Nov 8 - 9 ..... Toronto, ON |
| Apr 12 - 13 .... Shoreview, MN | Nov 15 - 16 ..... Palm Bay, FL |
| May 27 - 28 ..... Toronto, ON | Nov 22 - 23 ..... Salem, NH |
| Jun 2 - 3 ..... Santa Clara, CA | Nov 22 - 23 ... Santa Clara, CA |
| Jun 3 - 4 ..... Salem, NH | Nov 22 - 23 ... Schaumburg, IL |
| Jun 3 - 4 ..... Schaumburg, IL | Nov 22 - 23 .... Shoreview, MN |
| Jun 3 - 4 ..... Watertown, CT | Nov 22 - 23 .... Watertown, CT |
| Jun 28 - 29 ..... Palm Bay, FL | |

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.