



### 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

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.

## J-STD-001 Certified IPC Specialist (CIS)

### J-STD-001 "Requirements for Soldered Electrical & Electronic Assemblies"

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

#### J-STD-001 CIS Certification & Recertification

Jan 5 - 9 . . . . . Portland, OR  
Jan 5 - 9 . . . . . Rochester, NY  
Jan 5 - 9 . . . . . Santa Clara, CA  
Jan 12 - 16 . . . . . Buffalo, NY  
Jan 12 - 16 . . . . . Salem, NH  
Jan 12 - 16 . . . . . Shoreview, MN  
Jan 26 - 30 . . . . . Anaheim, CA  
Jan 26 - 30 . . . . . Markham, ON  
Feb 2 - 6 . . . . . Watertown, CT  
Feb 9 - 13 . . . . . Philadelphia, PA  
Feb 9 - 13 . . . . . Schaumburg, IL  
Feb 16 - 20 . . . . . Palm Bay, FL  
Feb 23 - 27 . . . . . Salem, NH  
Feb 23 - 27 . . . . . San Diego, CA  
Feb 23 - 27 . . . . . Seattle, WA  
Feb 23 - 27 . . . . . Syracuse, NY  
Mar 2 - 6 . . . . . Pittsburgh, PA  
Mar 2 - 6 . . . . . Santa Clara, CA  
Mar 9 - 13 . . . . . Kansas City, MO  
Mar 9 - 13 . . . . . Ottawa, ON  
Mar 16 - 20 . . . . . Shoreview, MN  
Mar 23 - 27 . . . . . Salem, NH  
Mar 30 - Apr 3 . . . . . Akron, OH  
Mar 30 - Apr 3 . . . . . Anaheim, CA  
Mar 30 - Apr 3 . . . . . Buffalo, NY  
Apr 6 - 10 . . . . . Markham, ON  
Apr 6 - 10 . . . . . Seattle, WA  
Apr 6 - 10 . . . . . Watertown, CT  
Apr 13 - 17 . . . . . Binghamton, NY  
Apr 13 - 17 . . . . . Salem, NH

Apr 20 - 24 . . . . . Rochester, NY  
Apr 27 - May 1 . . . . . Portland, OR  
Apr 27 - May 1 . . . . . Schaumburg, IL  
May 4 - 8 . . . . . Anaheim, CA  
May 4 - 8 . . . . . Long Island, NY  
May 4 - 8 . . . . . Santa Clara, CA  
May 4 - 8 . . . . . Shoreview, MN  
May 18 - 22 . . . . . Palm Bay, FL  
May 18 - 22 . . . . . Salem, NH  
Jun 1 - 5 . . . . . San Diego, CA  
Jun 8 - 12 . . . . . Philadelphia, PA  
Jun 15 - 19 . . . . . Santa Clara, CA  
Jun 15 - 19 . . . . . Watertown, CT  
Jun 22 - 26 . . . . . Markham, ON  
Jun 22 - 26 . . . . . Salem, NH  
Jun 22 - 26 . . . . . Seattle, WA  
Jul 6 - 10 . . . . . Shoreview, MN  
Jul 13 - 17 . . . . . Buffalo, NY  
Jul 20 - 24 . . . . . Salem, NH  
Jul 27 - 31 . . . . . Anaheim, CA  
Jul 27 - 31 . . . . . Kansas City, MO  
Aug 3 - 7 . . . . . Ottawa, ON  
Aug 10 - 14 . . . . . Palm Bay, FL  
Aug 10 - 14 . . . . . San Diego, CA  
Aug 17 - 21 . . . . . Akron, OH  
Aug 17 - 21 . . . . . Halifax, NS  
Aug 17 - 21 . . . . . Santa Clara, CA  
Aug 17 - 21 . . . . . Schaumburg, IL  
Aug 17 - 21 . . . . . Seattle, WA  
Aug 17 - 21 . . . . . Watertown, CT

Aug 24 - 28 . . . . . Pittsburgh, PA  
Aug 24 - 28 . . . . . Rochester, NY  
Aug 24 - 28 . . . . . Salem, NH  
Aug 24 - 28 . . . . . Markham, ON  
Sep 21 - 25 . . . . . Salem, NH  
Sep 21 - 25 . . . . . Shoreview, MN  
Sep 28 - Oct 2 . . . . . Portland, OR  
Sep 28 - Oct 2 . . . . . Santa Clara, CA  
Oct 5 - 9 . . . . . Binghamton, NY  
Oct 5 - 9 . . . . . Philadelphia, PA  
Oct 5 - 9 . . . . . Markham, ON  
Oct 12 - 16 . . . . . Salem, NH  
Oct 12 - 16 . . . . . Seattle, WA  
Oct 19 - 23 . . . . . Anaheim, CA  
Oct 19 - 23 . . . . . Schaumburg, IL  
Oct 26 - 30 . . . . . Watertown, CT  
Nov 2 - 6 . . . . . Santa Clara, CA  
Nov 2 - 6 . . . . . Syracuse, NY  
Nov 9 - 13 . . . . . Palm Bay, FL  
Nov 9 - 13 . . . . . San Diego, CA  
Nov 9 - 13 . . . . . Shoreview, MN  
Nov 16 - 20 . . . . . Buffalo, NY  
Nov 16 - 20 . . . . . Salem, NH  
Nov 23 - 27 . . . . . Ottawa, ON  
Nov 30 - Dec 4 . . . . . Salem, NH  
Nov 30 - Dec 4 . . . . . Seattle, WA  
Dec 7 - 11 . . . . . Watertown, CT  
Dec 14 - 18 . . . . . Kansas City, MO  
Dec 14 - 18 . . . . . Long Island, NY  
Dec 14 - 18 . . . . . Markham, ON

#### J-STD-001 CIT Space Addendum Certification & Recertification

Jan 9 . . . . . Palm Bay, FL  
Jan 9 . . . . . Salem, NH  
Jan 16 . . . . . Watertown, CT  
Feb 6 . . . . . Santa Clara, CA  
Feb 11 . . . . . Markham, ON  
Feb 27 . . . . . Shoreview, MN  
Mar 6 . . . . . Rochester, NY  
Mar 6 . . . . . Salem, NH  
Mar 27 . . . . . Schaumburg, IL  
Apr 17 . . . . . Salem, NH  
Apr 17 . . . . . Santa Clara, CA  
Apr 17 . . . . . Seattle, WA  
Apr 24 . . . . . Watertown, CT  
May 6 . . . . . Markham, ON  
May 8 . . . . . Salem, NH  
May 15 . . . . . Shoreview, MN  
May 29 . . . . . Santa Clara, CA  
Jul 10 . . . . . Salem, NH  
Jul 17 . . . . . Markham, ON  
Jul 31 . . . . . Watertown, CT

Aug 14 . . . . . Shoreview, MN  
Sep 4 . . . . . Schaumburg, IL  
Sep 4 . . . . . Markham, ON  
Sep 28 . . . . . Salem, NH  
Oct 16 . . . . . Santa Clara, CA  
Oct 23 . . . . . Shoreview, MN  
Oct 30 . . . . . Anaheim, CA  
Nov 6 . . . . . Schaumburg, IL  
Nov 6 . . . . . Watertown, CT  
Nov 13 . . . . . Salem, NH  
Nov 20 . . . . . Markham, ON  
Dec 21 . . . . . Salem, NH

#### ON-LINE Start time: 10am E.S.T.

|        |        |        |
|--------|--------|--------|
| Jan 16 | May 1  | Sep 4  |
| Feb 20 | Jun 19 | Oct 23 |
| Mar 6  | Jul 17 | Nov 6  |
| Apr 17 | Aug 7  | Dec 18 |

#### Challenge Test

#### IN-PERSON Salem, NH

|        |        |
|--------|--------|
| Jan 27 | Aug 6  |
| Feb 25 | Sep 4  |
| Mar 30 | Oct 16 |
| Apr 28 | Nov 23 |
| May 27 | Dec 21 |
| Jun 19 |        |

#### ON-LINE Start time: 10am E.S.T.

|        |        |        |
|--------|--------|--------|
| Jan 7  | May 13 | Sep 16 |
| Jan 21 | May 27 | Sep 30 |
| Feb 4  | Jun 10 | Oct 14 |
| Feb 18 | Jun 24 | Oct 28 |
| Mar 4  | Jul 8  | Nov 11 |
| Mar 18 | Jul 22 | Nov 23 |
| Apr 1  | Aug 5  | Dec 9  |
| Apr 15 | Aug 19 | Dec 21 |
| Apr 29 | Sep 2  |        |