



### 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

## 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

Jan 3 - 7 . . . . . Buffalo, NY	Jul 11 - 15 . . . . . Kansas City, MO
Jan 7 - 11 . . . . . San Bruno, CA	Jul 25 - 29 . . . . . Anaheim, CA
Jan 24 - 28 . . . . . Anaheim, CA	Jul 25 - 29 . . . . . Buffalo, NY
Jan 24 - 28 . . . . . Rochester, NY	Aug 1 - 5 . . . . . Manchester, NH
Jan 31 - Feb 4 . . . . . Schaumburg, IL	Aug 8 - 12 . . . . . Palm Bay, FL
Jan 31 - Feb 4 . . . . . Toronto, ON	Aug 8 - 12 . . . . . Akron, OH
Feb 7 - 11 . . . . . Watertown, CT	Aug 8 - 12 . . . . . Ottawa, ON
Feb 14 - 18 . . . . . San Diego, CA	Aug 15 - 19 . . . . . San Diego, CA
Feb 14 - 18 . . . . . Syracuse, NY	Aug 15 - 19 . . . . . Watertown, CT
Feb 21 - 25 . . . . . Palm Bay, FL	Aug 15 - 19 . . . . . Seattle, WA
Feb 21 - 25 . . . . . Halifax, NS	Aug 22 - 26 . . . . . Rochester, NY
Feb 21 - 25 . . . . . Manchester, NH	Aug 22 - 26 . . . . . Toronto, ON
Feb 28 - Mar 4 . . . . . Ottawa, ON	Aug 22 - 26 . . . . . Pittsburgh, PA
Mar 7 - 11 . . . . . Kansas City, MO	Sep 12 - 16 . . . . . Toronto, ON
Mar 14 - 18 . . . . . Pittsburgh, PA	Sep 19 - 23 . . . . . Schaumburg, IL
Mar 14 - 18 . . . . . Seattle, WA	Sep 19 - 23 . . . . . Manchester, NH
Mar 28 - Apr 1 . . . . . San Bruno, CA	Oct 3 - 7 . . . . . Binghamton, NY
Mar 28 - Apr 1 . . . . . Akron, OH	Oct 3 - 7 . . . . . Toronto, ON
Apr 4 - 8 . . . . . Buffalo, NY	Oct 10 - 14 . . . . . Anaheim, CA
Apr 4 - 8 . . . . . Manchester, NH	Oct 31 - Nov 4 . . . . . San Bruno, CA
Apr 11 - 15 . . . . . Anaheim, CA	Oct 31 - Nov 4 . . . . . Syracuse, NY
Apr 18 - 22 . . . . . Rochester, NY	Nov 7 - 11 . . . . . Watertown, CT
Apr 18 - 22 . . . . . Toronto, ON	Nov 14 - 18 . . . . . San Diego, CA
May 2 - 6 . . . . . San Bruno, CA	Nov 21 - 25 . . . . . Ottawa, ON
May 2 - 6 . . . . . Palm Bay, FL	Nov 28 - Dec 2 . . . . . Seattle, WA
May 2 - 6 . . . . . Long Island, NY	Dec 5 - 9 . . . . . Schaumburg, IL
May 16 - 20 . . . . . Watertown, CT	Dec 5 - 9 . . . . . Manchester, NH
May 16 - 20 . . . . . Binghamton, NY	Dec 12 - 16 . . . . . Palm Bay, FL
May 23 - 27 . . . . . Schaumburg, IL	Dec 12 - 16 . . . . . Kansas City, MO
Jun 13 - 17 . . . . . San Diego, CA	Dec 12 - 16 . . . . . Long Island, NY
Jun 13 - 17 . . . . . Toronto, ON	Dec 12 - 16 . . . . . Toronto, ON
Jun 20 - 24 . . . . . Manchester, NH	Dec 19 - 23 . . . . . Buffalo, NY

#### J-STD-001 CIS Recertification

Jan 3 - 7 . . . . . Buffalo, NY	Jul 11 - 15 . . . . . Kansas City, MO
Jan 7 - 11 . . . . . San Bruno, CA	Jul 25 - 29 . . . . . Anaheim, CA
Jan 24 - 28 . . . . . Anaheim, CA	Jul 25 - 29 . . . . . Buffalo, NY
Jan 24 - 28 . . . . . Rochester, NY	Aug 1 - 5 . . . . . Manchester, NH
Jan 31 - Feb 4 . . . . . Schaumburg, IL	Aug 8 - 12 . . . . . Palm Bay, FL
Jan 31 - Feb 4 . . . . . Toronto, ON	Aug 8 - 12 . . . . . Akron, OH
Feb 7 - 11 . . . . . Watertown, CT	Aug 8 - 12 . . . . . Ottawa, ON
Feb 14 - 18 . . . . . San Diego, CA	Aug 15 - 19 . . . . . San Diego, CA
Feb 14 - 18 . . . . . Syracuse, NY	Aug 15 - 19 . . . . . Watertown, CT
Feb 21 - 25 . . . . . Palm Bay, FL	Aug 15 - 19 . . . . . Seattle, WA
Feb 21 - 25 . . . . . Halifax, NS	Aug 22 - 26 . . . . . Rochester, NY
Feb 21 - 25 . . . . . Manchester, NH	Aug 22 - 26 . . . . . Toronto, ON
Feb 28 - Mar 4 . . . . . Ottawa, ON	Aug 22 - 26 . . . . . Pittsburgh, PA
Mar 7 - 11 . . . . . Watertown, CT	Sep 12 - 16 . . . . . Toronto, ON
Mar 7 - 11 . . . . . Kansas City, MO	Sep 19 - 23 . . . . . Schaumburg, IL
Mar 14 - 18 . . . . . Pittsburgh, PA	Sep 19 - 23 . . . . . Manchester, NH
Mar 14 - 18 . . . . . Seattle, WA	Oct 3 - 7 . . . . . Binghamton, NY
Mar 28 - Apr 1 . . . . . San Bruno, CA	Oct 3 - 7 . . . . . Toronto, ON
Mar 28 - Apr 1 . . . . . Akron, OH	Oct 10 - 14 . . . . . Anaheim, CA
Apr 4 - 8 . . . . . Buffalo, NY	Oct 31 - Nov 4 . . . . . San Bruno, CA
Apr 4 - 8 . . . . . Manchester, NH	Oct 31 - Nov 4 . . . . . Syracuse, NY
Apr 11 - 15 . . . . . Anaheim, CA	Nov 7 - 11 . . . . . Watertown, CT
Apr 18 - 22 . . . . . Rochester, NY	Nov 14 - 18 . . . . . San Diego, CA
Apr 18 - 22 . . . . . Toronto, ON	Nov 21 - 25 . . . . . Ottawa, ON
May 2 - 6 . . . . . San Bruno, CA	Nov 28 - Dec 2 . . . . . Seattle, WA
May 2 - 6 . . . . . Palm Bay, FL	Dec 5 - 9 . . . . . Schaumburg, IL
May 2 - 6 . . . . . Long Island, NY	Dec 5 - 9 . . . . . Manchester, NH
May 16 - 20 . . . . . Watertown, CT	Dec 12 - 16 . . . . . Palm Bay, FL
May 16 - 20 . . . . . Binghamton, NY	Dec 12 - 16 . . . . . Kansas City, MO
May 23 - 27 . . . . . Schaumburg, IL	Dec 12 - 16 . . . . . Long Island, NY
Jun 13 - 17 . . . . . San Diego, CA	Dec 12 - 16 . . . . . Toronto, ON
Jun 13 - 17 . . . . . Toronto, ON	Dec 19 - 23 . . . . . Buffalo, NY
Jun 20 - 24 . . . . . Manchester, NH	

#### J-STD-001 CIS Space Addendum Certification

Jan 28 . . . . . Manchester, NH	Oct 21 . . . . . San Diego, CA
Feb 18 . . . . . Watertown, CT	Nov 11 . . . . . Manchester, NH
Feb 21 . . . . . San Diego, CA	Nov 11 . . . . . Toronto, ON
Feb 23 . . . . . Toronto, ON	Dec 20 . . . . . Manchester, NH
Mar 28 . . . . . Manchester, NH	
Apr 29 . . . . . Rochester, NY	
May 13 . . . . . Watertown, CT	
May 13 . . . . . Toronto, ON	
Jun 30 . . . . . Manchester, NH	
Jul 22 . . . . . Manchester, NH	
Aug 5 . . . . . Watertown, CT	
Sep 30 . . . . . Manchester, NH	

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

Feb 25
Apr 29
Jul 1
Aug 26
Oct 21
Nov 18

#### Challenge Test

Jan 7 . . . . . Manchester, NH	Jun 29 . . . . . Manchester, NH
Jan 31 . . . . . Manchester, NH	Jul 21 . . . . . Manchester, NH
Feb 25 . . . . . Manchester, NH	Aug 5 . . . . . Manchester, NH
Mar 11 . . . . . Manchester, NH	Sep 22 . . . . . Manchester, NH
Apr 1 . . . . . Manchester, NH	Oct 20 . . . . . Manchester, NH
May 6 . . . . . Manchester, NH	Nov 18 . . . . . Manchester, NH
May 20 . . . . . Manchester, NH	Dec 19 . . . . . Manchester, NH

#### J-STD-001 CIS Space Addendum Recertification

Jan 28 . . . . . Manchester, NH	Oct 21 . . . . . San Diego, CA
Feb 18 . . . . . Watertown, CT	Nov 11 . . . . . Manchester, NH
Feb 21 . . . . . San Diego, CA	Nov 11 . . . . . Toronto, ON
Feb 23 . . . . . Toronto, ON	Dec 20 . . . . . Manchester, NH
Mar 28 . . . . . Manchester, NH	
Apr 29 . . . . . Rochester, NY	
May 13 . . . . . Watertown, CT	
May 13 . . . . . Toronto, ON	
Jun 30 . . . . . Manchester, NH	
Jul 22 . . . . . Manchester, NH	
Aug 5 . . . . . Watertown, CT	
Sep 30 . . . . . Manchester, NH	

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Jan 7 . . . . . Manchester, NH	Jun 29 . . . . . Manchester, NH
Jan 31 . . . . . Manchester, NH	Jul 21 . . . . . Manchester, NH
Feb 25 . . . . . Manchester, NH	Aug 5 . . . . . Manchester, NH
Mar 11 . . . . . Manchester, NH	Sep 22 . . . . . Manchester, NH
Apr 1 . . . . . Manchester, NH	Oct 20 . . . . . Manchester, NH
May 6 . . . . . Manchester, NH	Nov 18 . . . . . Manchester, NH
May 20 . . . . . Manchester, NH	Dec 19 . . . . . 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.