



### 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 Standards Expert (CSE)

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

Become a subject matter expert in J-STD-001.

#### J-STD-001 CSE Certification

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

**ON-LINE** Start time: 10am E.S.T.  
Feb 19 - 22    Oct 21 - 24  
Jun 3 - 6

#### Challenge Test

##### IN-PERSON

Jan 3	Jun 19
Jan 24	Aug 7
Feb 14	Sep 12
Feb 26	Oct 17
Apr 11	Nov 7
May 9	Dec 22
Jun 6	

##### ON-LINE

Jan 8	May 14	Sep 17
Jan 22	May 28	Oct 1
Feb 5	Jun 11	Oct 15
Feb 19	Jun 25	Oct 29
Mar 5	Jul 9	Nov 12
Mar 19	Jul 23	Nov 24
Apr 2	Aug 6	Dec 10
Apr 16	Aug 20	Dec 22
Apr 30	Sep 3	

#### J-STD-001 CSE Recertification

Jan 8 - 9	Toronto, ON	Jul 16 - 17	Toronto, ON
Jan 8 - 9	Palm Bay, FL	Jul 23 - 24	Rochester, NY
Jan 8 - 9	San Diego, CA	Jul 30 - 31	San Jose, CA
Jan 8 - 9	Manchester, NH	Jul 30 - 31	Portland, OR
Jan 15 - 16	Watertown, CT	Jul 30 - 31	Watertown, CT
Jan 16 - 17	Kansas City, MO	Aug 13 - 14	Minneapolis, MN
Jan 22 - 23	Anaheim, CA	Aug 14 - 15	Buffalo, NY
Jan 22 - 23	Schaumburg, IL	Aug 20 - 21	Schaumburg, IL
Jan 29 - 30	Long Island, NY	Aug 27 - 28	Palm Bay, FL
Feb 5 - 6	San Jose, CA	Aug 27 - 28	Kansas City, MO
Feb 19 - 20	Seattle, WA	Sep 4 - 5	Manchester, NH
Feb 26 - 27	Minneapolis, MN	Sep 4 - 5	Binghamton, NY
Mar 5 - 6	Rochester, NY	Sep 10 - 11	Toronto, ON
Mar 12 - 13	Palm Bay, FL	Oct 8 - 9	San Diego, CA
Mar 12 - 13	Manchester, NH	Oct 8 - 9	Manchester, NH
Mar 27 - 28	Ottawa, ON	Oct 15 - 16	San Jose, CA
Apr 16 - 17	Schaumburg, IL	Oct 22 - 23	Seattle, WA
Apr 16 - 17	Seattle, WA	Oct 22 - 23	Rochester, NY
Apr 16 - 17	San Jose, CA	Oct 22 - 23	Minneapolis, MN
Apr 23 - 24	Watertown, CT	Oct 29 - 30	Anaheim, CA
Apr 30 - May 1	Toronto, ON	Nov 5 - 6	Watertown, CT
Apr 30 - May 1	Buffalo, NY	Nov 5 - 6	Schaumburg, IL
May 1 - 2	Anaheim, CA	Nov 12 - 13	Manchester, NH
May 7 - 8	Manchester, NH	Nov 19 - 20	Toronto, ON
May 7 - 8	Binghamton, NY		
May 14 - 15	Minneapolis, MN		
Jun 11 - 12	San Diego, CA		
Jun 18 - 19	Seattle, WA		
Jun 25 - 26	Long Island, NY		
Jul 9 - 10	Manchester, NH		

**ON-LINE** Start time: 10am E.S.T.  
Feb 12 - 13    Apr 16 - 17  
Jun 18 - 19    Aug 6 - 7  
Oct 15 - 16    Dec 17 - 18

#### Challenge Test

##### IN-PERSON

Jan 3	Jun 19
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Feb 14	Sep 12
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##### ON-LINE

Jan 8	May 14	Sep 17
Jan 22	May 28	Oct 1
Feb 5	Jun 11	Oct 15
Feb 19	Jun 25	Oct 29
Mar 5	Jul 9	Nov 12
Mar 19	Jul 23	Nov 24
Apr 2	Aug 6	Dec 10
Apr 16	Aug 20	Dec 22
Apr 30	Sep 3	

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

Jan 12	Toronto, ON	Aug 2	Watertown, CT
Jan 19	Watertown, CT	Sep 13	Toronto, ON
Jan 29	Manchester, NH	Sep 30	Manchester, NH
Mar 8	Manchester, NH	Nov 1	Anaheim, CA
Apr 19	Seattle, WA	Nov 15	Manchester, NH
Apr 26	Watertown, CT	Nov 22	Toronto, ON
May 1	Manchester, NH	Dec 23	Manchester, NH
May 3	Rochester, NY		
May 3	Toronto, ON		
May 10	Manchester, NH		
Jul 12	Manchester, NH		
Jul 19	Toronto, ON		
Aug 2	Portland, OR		

**ON-LINE** Start time: 10am E.S.T.  
Jan 17    May 2    Sep 5  
Feb 21    Jun 20    Oct 24  
Mar 7    Jul 18    Nov 7  
Apr 16    Aug 8    Dec 19

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.