



### 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-A-620 Certified Standard Expert (CSE)

### IPC/WHMA-A-620 "Requirements and Acceptance for Cable and Wire Harness Assemblies"

Become a subject matter expert in IPC-A-620.

#### IPC-A-620 CSE Certification

Jan 6 - 9	Kansas City, MO	Jul 21 - 24	Manchester, NH
Jan 6 - 9	Minneapolis, MN	Aug 4 - 7	San Diego, CA
Jan 13 - 16	San Jose, CA	Aug 4 - 7	Portland, OR
Jan 13 - 16	Manchester, NH	Aug 11 - 14	Schaumburg, IL
Jan 20 - 23	Long Island, NY	Aug 11 - 14	Seattle, WA
Jan 27 - 30	Portland, OR	Aug 11 - 14	Watertown, CT
Feb 3 - 6	Anaheim, CA	Aug 18 - 21	Toronto, ON
Feb 10 - 13	Watertown, CT	Aug 18 - 21	Anaheim, CA
Feb 10 - 13	Seattle, WA	Sep 2 - 5	Manchester, NH
Feb 10 - 13	San Diego, CA	Sep 8 - 11	Minneapolis, MN
Feb 17 - 20	San Jose, CA	Sep 9 - 12	Pittsburgh, PA
Feb 18 - 21	Toronto, ON	Sep 15 - 18	San Jose, CA
Feb 24 - 27	Schaumburg, IL	Sep 15 - 18	Akron, OH
Feb 24 - 27	Pittsburgh, PA	Sep 22 - 25	Buffalo, NY
Mar 3 - 6	Palm Bay, FL	Sep 22 - 25	Palm Bay, FL
Mar 3 - 6	Manchester, NH	Sep 29 - Oct 2	Long Island, NY
Mar 10 - 13	San Jose, CA	Oct 6 - 9	Seattle, WA
Mar 10 - 13	Minneapolis, MN	Oct 6 - 9	Rochester, NY
Mar 17 - 20	Buffalo, NY	Oct 6 - 9	Schaumburg, IL
Mar 17 - 20	Portland, OR	Oct 13 - 16	San Diego, CA
Mar 24 - 27	Rochester, NY	Oct 13 - 16	Kansas City, MO
Apr 8 - 11	San Diego, CA	Oct 20 - 23	Watertown, CT
Apr 14 - 17	Watertown, CT	Oct 27 - 30	Toronto, ON
Apr 14 - 17	Toronto, ON	Oct 27 - 30	Portland, OR
Apr 21 - 24	Anaheim, CA	Nov 3 - 6	Anaheim, CA
Apr 21 - 24	Seattle, WA	Nov 3 - 6	Minneapolis, MN
Apr 21 - 24	Schaumburg, IL	Nov 10 - 13	San Jose, CA
May 5 - 8	Kansas City, MO	Dec 1 - 4	Toronto, ON
May 12 - 15	San Jose, CA	Dec 8 - 11	Schaumburg, IL
May 12 - 15	Long Island, NY	Dec 8 - 11	Seattle, WA
May 19 - 22	Minneapolis, MN	Dec 8 - 11	Palm Bay, FL
May 19 - 22	Portland, OR	Dec 15 - 18	Watertown, CT
May 19 - 22	Akron, OH	Dec 15 - 18	Manchester, NH
May 19 - 22	Manchester, NH		
Jun 2 - 5	Palm Bay, FL		
Jun 2 - 5	Schaumburg, IL		
Jun 9 - 12	Buffalo, NY		
Jun 9 - 12	Seattle, WA		
Jun 16 - 19	Toronto, ON		
Jun 16 - 19	Anaheim, CA		
Jun 23 - 26	San Jose, CA		
Jun 23 - 26	Rochester, NY		
Jun 23 - 26	Manchester, NH		
Jun 23 - 26	Watertown, CT		
Jul 14 - 17	Minneapolis, MN		
Jul 21 - 24	San Jose, CA		

#### Challenge Test

##### IN-PERSON Manchester, NH

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 Start time: 10am E.S.T.

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	

#### IPC-A-620 CSE Recertification

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

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

Jan 22 - 23
Mar 5 - 6
May 7 - 8
Jul 23 - 24
Aug 27 - 28
Nov 5 - 6

#### Challenge Test

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Mar 19	Jul 23	Nov 24
Apr 2	Aug 6	Dec 10
Apr 16	Aug 20	Dec 22
Apr 30	Sep 3	

#### ALSO AVAILABLE

#### IPC-A-620 Hands-on Lab

Through hands-on labs, students perform necessary procedures for building an entire wire harness assembly.

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.