



### 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-610 Certified IPC Trainer (CIT)

### IPC-A-610 "The Acceptability of Electronic Assemblies"

Become certified to train your workforce to identify accept/reject criteria for all three classes of assembly production.

#### IPC-A-610 CIT Certification

Jan 5 - 8 . . . . . Watertown, CT	Jul 20 - 23 . . . . . Palm Bay, FL
Jan 12 - 15 . . . . . Markham, ON	Jul 20 - 23 . . . . . Schaumburg, IL
Jan 12 - 15 . . . . . San Diego, CA	Jul 27 - 30 . . . . . Markham, ON
Jan 12 - 15 . . . . . Schaumburg, IL	Aug 3 - 6 . . . . . Shoreview, MN
Jan 13 - 16 . . . . . Seattle, WA	Aug 10 - 13 . . . . . Salem, NH
Jan 19 - 22 . . . . . Pittsburgh, PA	Aug 24 - 27 . . . . . Anaheim, CA
Jan 20 - 23 . . . . . Buffalo, NY	Aug 31 - Sep 3 Santa Clara, CA
Jan 20 - 23 . . . . . Santa Clara, CA	Sep 14 - 17 . . . . . Rochester, NY
Jan 26 - 29 . . . . . Palm Bay, FL	Sep 14 - 17 . . . . . San Diego, CA
Feb 2 - 5 . . . . . Kansas City, MO	Sep 14 - 17 . . . . . Markham, ON
Feb 2 - 5 . . . . . Portland, OR	Sep 14 - 17 . . . . . Watertown, CT
Feb 2 - 5 . . . . . Salem, NH	Sep 21 - 24 . . . . . Schaumburg, IL
Feb 16 - 19 . . . . . Anaheim, CA	Sep 21 - 24 . . . . . Seattle, WA
Feb 17 - 20 . . . . . Rochester, NY	Oct 5 - 8 . . . . . Palm Bay, FL
Feb 17 - 20 . . . . . Shoreview, MN	Oct 12 - 15 . . . . . Buffalo, NY
Feb 23 - 26 . . . . . Santa Clara, CA	Oct 12 - 15 . . . . . Salem, NH
Mar 2 - 5 . . . . . Seattle, WA	Oct 12 - 15 . . . . . Shoreview, MN
Mar 9 - 12 . . . . . Watertown, CT	Oct 19 - 22 . . . . . Long Island, NY
Mar 10 - 13 . . . . . San Diego, CA	Oct 26 - 29 . . . . . Kansas City, MO
Mar 16 - 19 . . . . . Schaumburg, IL	Nov 9 - 12 . . . . . Akron, OH
Mar 23 - 26 . . . . . Long Island, NY	Nov 9 - 12 . . . . . Anaheim, CA
Mar 23 - 26 . . . . . Markham, ON	Nov 9 - 12 . . . . . Portland, OR
Mar 30 - Apr 2 Ottawa, ON	Nov 16 - 19 . . . . . Ottawa, ON
Mar 30 - Apr 2 Portland, OR	Nov 16 - 19 . . . . . San Diego, CA
Apr 6 - 9 . . . . . Salem, NH	Nov 16 - 19 . . . . . Schaumburg, IL
Apr 6 - 9 . . . . . Shoreview, MN	Nov 16 - 19 . . . . . Seattle, WA
Apr 13 - 16 . . . . . Anaheim, CA	Nov 16 - 19 . . . . . Watertown, CT
Apr 20 - 23 . . . . . Palm Bay, FL	Nov 24 - 27 . . . . . Markham, ON
Apr 20 - 23 . . . . . Santa Clara, CA	Nov 30 - Dec 3 Binghamton, NY
May 4 - 7 . . . . . Rochester, NY	Nov 30 - Dec 3 Pittsburgh, PA
May 4 - 7 . . . . . Schaumburg, IL	Nov 30 - Dec 3 Santa Clara, CA
May 4 - 7 . . . . . Seattle, WA	Nov 30 - Dec 3 Shoreview, MN
May 11 - 14 . . . . . San Diego, CA	Dec 7 - 10 . . . . . Salem, NH
May 11 - 14 . . . . . Watertown, CT	
May 18 - 21 . . . . . Santa Clara, CA	
May 25 - 28 . . . . . Markham, ON	
May 26 - 29 . . . . . Buffalo, NY	
Jun 1 - 4 . . . . . Portland, OR	
Jun 8 - 11 . . . . . Long Island, NY	
Jun 8 - 11 . . . . . Salem, NH	
Jun 8 - 11 . . . . . Shoreview, MN	
Jun 15 - 18 . . . . . Binghamton, NY	
Jun 15 - 18 . . . . . Kansas City, MO	
Jun 22 - 25 . . . . . Akron, OH	
Jun 22 - 25 . . . . . Anaheim, CA	
Jun 22 - 25 . . . . . Pittsburgh, PA	
Jul 7 - 10 . . . . . Santa Clara, CA	
Jul 13 - 16 . . . . . San Diego, CA	
Jul 13 - 16 . . . . . Seattle, WA	
Jul 13 - 16 . . . . . Watertown, CT	

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

Jan 5 - 8	Jan 29 - Jul 2
Jan 26 - 29	Jul 13 - 16
Feb 9 - 12	Jul 27 - 30
Feb 16 - 19	Aug 10 - 13
Mar 9 - 12	Aug 24 - 27
Mar 23 - 26	Sep 14 - 17
Apr 6 - 9	Oct 5 - 8
Apr 20 - 23	Oct 26 - 29
May 4 - 7	Nov 16 - 19
May 11 - 14	Dec 7 - 10
Jun 1 - 4	Dec 28 - 31
Jun 15 - 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	

#### IPC-A-610 CIT Recertification

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

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

Jan 19 - 20	Jul 20 - 21
Feb 9 - 10	Aug 24 - 25
Mar 2 - 3	Sep 14 - 15
Apr 13 - 14	Oct 13 - 14
May 4 - 5	Nov 2 - 3
Jun 15 - 16	Dec 14 - 15

#### 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	

#### ALSO AVAILABLE

#### EPTAC Interactive PCB Inspection Lab

Utilizes, lectures, visual acuity exercises, and physical assemblies to provide an experience in visually inspecting printed circuit assemblies.

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.



### 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-610 Certified IPC Specialist (CIS)

### IPC-A-610 "The Acceptability of Electronic Assemblies"

Learn accept/reject criteria for all 3 classes of assembly production as published in the most widely used inspection specification, IPC-A-610.

### IPC-A-610 CIS Certification & Recertification

Jan 5 - 8 . . . . . Watertown, CT  
 Jan 12 - 15 . . . . . Markham, ON  
 Jan 12 - 15 . . . . . San Diego, CA  
 Jan 12 - 15 . . . . . Schaumburg, IL  
 Jan 13 - 16 . . . . . Seattle, WA  
 Jan 19 - 22 . . . . . Pittsburgh, PA  
 Jan 19 - 22 . . . . . Salem, NH  
 Jan 20 - 23 . . . . . Atlanta, GA  
 Jan 20 - 23 . . . . . Buffalo, NY  
 Jan 20 - 23 . . . . . Santa Clara, CA  
 Jan 26 - 29 . . . . . Palm Bay, FL  
 Feb 2 - 5 . . . . . Kansas City, MO  
 Feb 2 - 5 . . . . . Portland, OR  
 Feb 9 - 12 . . . . . Salem, NH  
 Feb 23 - 26 . . . . . Santa Clara, CA  
 Feb 16 - 19 . . . . . Anaheim, CA  
 Feb 17 - 20 . . . . . Rochester, NY  
 Feb 17 - 20 . . . . . Shoreview, MN  
 Mar 2 - 5 . . . . . Seattle, WA  
 Mar 9 - 12 . . . . . Watertown, CT  
 Mar 10 - 13 . . . . . San Diego, CA  
 Mar 16 - 19 . . . . . Philadelphia, PA  
 Mar 16 - 19 . . . . . Schaumburg, IL  
 Mar 23 - 26 . . . . . Long Island, NY  
 Mar 23 - 26 . . . . . Markham, ON  
 Mar 23 - 26 . . . . . Salem, NH  
 Mar 30 - Apr 2 . . . . . Ottawa, ON  
 Mar 30 - Apr 2 . . . . . Portland, OR  
 Apr 6 - 9 . . . . . Atlanta, GA  
 Apr 6 - 9 . . . . . Shoreview, MN  
 Apr 6 - 9 . . . . . Syracuse, NY  
 Apr 13 - 16 . . . . . Anaheim, CA  
 Apr 13 - 16 . . . . . Salem, NH  
 Apr 20 - 23 . . . . . Palm Bay, FL  
 Apr 20 - 23 . . . . . Santa Clara, CA  
 May 4 - 7 . . . . . Rochester, NY  
 May 4 - 7 . . . . . Salem, NH  
 May 4 - 7 . . . . . Schaumburg, IL  
 May 4 - 7 . . . . . Seattle, WA

May 11 - 14 . . . . . San Diego, CA  
 May 11 - 14 . . . . . Watertown, CT  
 May 18 - 21 . . . . . Santa Clara, CA  
 May 25 - 28 . . . . . Markham, ON  
 May 26 - 29 . . . . . Buffalo, NY  
 Jun 1 - 4 . . . . . Portland, OR  
 Jun 2 - 5 . . . . . Halifax, NS  
 Jun 8 - 11 . . . . . Long Island, NY  
 Jun 8 - 11 . . . . . Shoreview, MN  
 Jun 15 - 18 . . . . . Binghamton, NY  
 Jun 15 - 18 . . . . . Kansas City, MO  
 Jun 15 - 18 . . . . . Salem, NH  
 Jun 22 - 25 . . . . . Akron, OH  
 Jun 22 - 25 . . . . . Anaheim, CA  
 Jun 22 - 25 . . . . . Pittsburgh, PA  
 Jul 6 - 9 . . . . . Salem, NH  
 Jul 7 - 10 . . . . . Santa Clara, CA  
 Jul 13 - 16 . . . . . San Diego, CA  
 Jul 13 - 16 . . . . . Seattle, WA  
 Jul 13 - 16 . . . . . Watertown, CT  
 Jul 20 - 23 . . . . . Palm Bay, FL  
 Jul 20 - 23 . . . . . Schaumburg, IL  
 Jul 27 - 30 . . . . . Atlanta, GA  
 Jul 27 - 30 . . . . . Markham, ON  
 Jul 27 - 30 . . . . . Philadelphia, PA  
 Aug 3 - 6 . . . . . Shoreview, MN  
 Aug 4 - 7 . . . . . Syracuse, NY  
 Aug 17 - 20 . . . . . Salem, NH  
 Aug 24 - 27 . . . . . Anaheim, CA  
 Aug 31 - Sep 3 . . . . . Portland, OR  
 Aug 31 - Sep 3 . . . . . Santa Clara, CA  
 Sep 14 - 17 . . . . . Rochester, NY  
 Sep 14 - 17 . . . . . San Diego, CA  
 Sep 14 - 17 . . . . . Markham, ON  
 Sep 14 - 17 . . . . . Watertown, CT  
 Sep 21 - 24 . . . . . Schaumburg, IL  
 Sep 21 - 24 . . . . . Seattle, WA  
 Sep 28 - Oct 1 . . . . . Salem, NH  
 Oct 5 - 8 . . . . . Atlanta, GA

Oct 5 - 8 . . . . . Palm Bay, FL  
 Oct 12 - 15 . . . . . Buffalo, NY  
 Oct 12 - 15 . . . . . Shoreview, MN  
 Oct 19 - 22 . . . . . Long Island, NY  
 Oct 19 - 22 . . . . . Salem, NH  
 Oct 26 - 29 . . . . . Kansas City, MO  
 Oct 26 - 29 . . . . . Santa Clara, CA  
 Nov 9 - 12 . . . . . Akron, OH  
 Nov 9 - 12 . . . . . Anaheim, CA  
 Nov 9 - 12 . . . . . Portland, OR  
 Nov 16 - 19 . . . . . Ottawa, ON  
 Nov 16 - 19 . . . . . Philadelphia, PA  
 Nov 16 - 19 . . . . . Salem, NH  
 Nov 16 - 19 . . . . . Santa Clara, CA  
 Nov 16 - 19 . . . . . Schaumburg, IL  
 Nov 16 - 19 . . . . . Seattle, WA  
 Nov 16 - 19 . . . . . Watertown, CT  
 Nov 24 - 27 . . . . . Markham, ON  
 Nov 30 - Dec 3 . . . . . Binghamton, NY  
 Nov 30 - Dec 3 . . . . . Pittsburgh, PA  
 Nov 30 - Dec 3 . . . . . Santa Clara, CA  
 Nov 30 - Dec 3 . . . . . Shoreview, MN  
 Dec 14 - 17 . . . . . Salem, NH

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

Jan 5 - 8	Jun 29 - Jul 2
Jan 26 - 29	Jul 13 - 16
Feb 9 - 12	Jul 27 - 30
Feb 16 - 19	Aug 10 - 13
Mar 9 - 12	Aug 24 - 27
Mar 23 - 26	Sep 14 - 17
Apr 6 - 9	Oct 5 - 8
Apr 20 - 23	Oct 26 - 29
May 4 - 7	Nov 16 - 19
May 11 - 14	Dec 7 - 10
Jun 1 - 4	Dec 28 - 31
Jun 15 - 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 25
Apr 1	Aug 5	Dec 9
Apr 15	Aug 19	Dec 21
Apr 29	Sep 2	

### ALSO AVAILABLE

#### EPTAC Interactive PCB Inspection Lab

Utilizes, lectures, visual acuity exercises, and physical assemblies to provide an experience in visually inspecting printed circuit assemblies.

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.



### 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

### HARNESST 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.

## IPC-A-610 Certified Standards Expert (CSE)

### IPC-A-610 "The Acceptability of Electronic Assemblies"

Become a subject matter expert in IPC-A-610.

#### IPC-A-610 CSE Certification

Jan 5 - 8 . . . . . Watertown, CT	Jul 20 - 23 . . . . . Schaumburg, IL
Jan 12 - 15 . . . . . Markham, ON	Jul 27 - 30 . . . . . Markham, ON
Jan 12 - 15 . . . . . San Diego, CA	Aug 3 - 6 . . . . . Shoreview, MN
Jan 12 - 15 . . . . . Schaumburg, IL	Aug 10 - 13 . . . . . Salem, NH
Jan 13 - 16 . . . . . Seattle, WA	Aug 24 - 27 . . . . . Anaheim, CA
Jan 19 - 22 . . . . . Pittsburgh, PA	Aug 31 - Sep 3 . . . . . Portland, OR
Jan 20 - 23 . . . . . Buffalo, NY	Aug 31 - Sep 3 . . . . . Santa Clara, CA
Jan 20 - 23 . . . . . Santa Clara, CA	Sep 14 - 17 . . . . . Rochester, NY
Jan 26 - 29 . . . . . Palm Bay, FL	Sep 14 - 17 . . . . . San Diego, CA
Feb 2 - 5 . . . . . Kansas City, MO	Sep 14 - 17 . . . . . Markham, ON
Feb 2 - 5 . . . . . Portland, OR	Sep 14 - 17 . . . . . Watertown, CT
Feb 2 - 5 . . . . . Salem, NH	Sep 21 - 24 . . . . . Schaumburg, IL
Feb 16 - 19 . . . . . Anaheim, CA	Sep 21 - 24 . . . . . Seattle, WA
Feb 17 - 20 . . . . . Rochester, NY	Oct 5 - 8 . . . . . Palm Bay, FL
Feb 17 - 20 . . . . . Shoreview, MN	Oct 12 - 15 . . . . . Buffalo, NY
Feb 23 - 26 . . . . . Santa Clara, CA	Oct 12 - 15 . . . . . Salem, NH
Mar 2 - 5 . . . . . Seattle, WA	Oct 12 - 15 . . . . . Shoreview, MN
Mar 9 - 12 . . . . . Watertown, CT	Oct 19 - 22 . . . . . Long Island, NY
Mar 10 - 13 . . . . . San Diego, CA	Oct 26 - 29 . . . . . Kansas City, MO
Mar 16 - 19 . . . . . Schaumburg, IL	Oct 26 - 29 . . . . . Santa Clara, CA
Mar 23 - 26 . . . . . Long Island, NY	Nov 9 - 12 . . . . . Akron, OH
Mar 23 - 26 . . . . . Markham, ON	Nov 9 - 12 . . . . . Anaheim, CA
Mar 30 - Apr 2 . . . . . Ottawa, ON	Nov 9 - 12 . . . . . Portland, OR
Mar 30 - Apr 2 . . . . . Portland, OR	Nov 16 - 19 . . . . . Ottawa, ON
Apr 6 - 9 . . . . . Salem, NH	Nov 16 - 19 . . . . . San Diego, CA
Apr 6 - 9 . . . . . Shoreview, MN	Nov 16 - 19 . . . . . Schaumburg, IL
Apr 13 - 16 . . . . . Anaheim, CA	Nov 16 - 19 . . . . . Seattle, WA
Apr 20 - 23 . . . . . Palm Bay, FL	Nov 16 - 19 . . . . . Watertown, CT
Apr 20 - 23 . . . . . Santa Clara, CA	Nov 24 - 27 . . . . . Markham, ON
May 4 - 7 . . . . . Rochester, NY	Nov 30 - Dec 3 . . . . . Binghamton, NY
May 4 - 7 . . . . . Schaumburg, IL	Nov 30 - Dec 3 . . . . . Pittsburgh, PA
May 4 - 7 . . . . . Seattle, WA	Nov 30 - Dec 3 . . . . . Santa Clara, CA
May 11 - 14 . . . . . San Diego, CA	Nov 30 - Dec 3 . . . . . Shoreview, MN
May 11 - 14 . . . . . Watertown, CT	Dec 7 - 10 . . . . . Salem, NH
May 18 - 21 . . . . . Santa Clara, CA	
May 25 - 28 . . . . . Markham, ON	
May 26 - 29 . . . . . Buffalo, NY	
Jun 1 - 4 . . . . . Portland, OR	
Jun 8 - 11 . . . . . Long Island, NY	
Jun 8 - 11 . . . . . Salem, NH	
Jun 8 - 11 . . . . . Shoreview, MN	
Jun 15 - 18 . . . . . Binghamton, NY	
Jun 15 - 18 . . . . . Kansas City, MO	
Jun 22 - 25 . . . . . Akron, OH	
Jun 22 - 25 . . . . . Anaheim, CA	
Jun 22 - 25 . . . . . Pittsburgh, PA	
Jul 7 - 10 . . . . . Santa Clara, CA	
Jul 13 - 16 . . . . . San Diego, CA	
Jul 13 - 16 . . . . . Seattle, WA	
Jul 13 - 16 . . . . . Watertown, CT	
Jul 20 - 23 . . . . . Palm Bay, FL	

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

Jan 5 - 8	Jan 29 - Jul 2
Jan 26 - 29	Jul 13 - 16
Feb 9 - 12	Jul 27 - 30
Feb 16 - 19	Aug 10 - 13
Mar 9 - 12	Aug 24 - 27
Mar 23 - 26	Sep 14 - 17
Apr 6 - 9	Oct 5 - 8
Apr 20 - 23	Oct 26 - 29
May 4 - 7	Nov 16 - 19
May 11 - 14	Dec 7 - 10
Jun 1 - 4	Dec 28 - 31
Jun 15 - 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	

#### IPC-A-610 CSE Recertification

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

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

Jan 19 - 20	Jul 20 - 21
Feb 9 - 10	Aug 24 - 25
Mar 2 - 3	Sep 14 - 15
Apr 13 - 14	Oct 13 - 14
May 4 - 5	Nov 2 - 3
Jun 15 - 16	Dec 14 - 15

#### 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	

#### ALSO AVAILABLE

#### EPTAC Interactive PCB Inspection Lab

Utilizes, lectures, visual acuity exercises, and physical assemblies to provide an experience in visually inspecting printed circuit assemblies.



### 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

## EPTAC Interactive PCB Inspection Lab (CIT or CIS Option)

*Utilizes, lectures, visual acuity exercises, and physical assemblies to provide an experience in visually inspecting printed circuit assemblies.*

### EPTAC Interactive Inspection Lab

Jan 9 . . . . .	Watertown, CT	Jul 17 . . . . .	Seattle, WA
Jan 16 . . . . .	San Diego, CA	Jul 17 . . . . .	Watertown, CT
Jan 16 . . . . .	Schaumburg, IL	Jul 24 . . . . .	Schaumburg, IL
Jan 16 . . . . .	Markham, ON	Jul 31 . . . . .	Markham, ON
Jan 23 . . . . .	Salem, NH	Aug 7 . . . . .	Shoreview, MN
Feb 6 . . . . .	Kansas City, MO	Aug 21 . . . . .	Salem, NH
Feb 6 . . . . .	Portland, OR	Aug 28 . . . . .	Anaheim, CA
Feb 13 . . . . .	Salem, NH	Sep 4 . . . . .	Portland, OR
Feb 20 . . . . .	Anaheim, CA	Sep 4 . . . . .	Santa Clara, CA
Feb 27 . . . . .	Santa Clara, CA	Sep 18 . . . . .	Rochester, NY
Mar 6 . . . . .	Seattle, WA	Sep 18 . . . . .	San Diego, CA
Mar 13 . . . . .	Watertown, CT	Sep 18 . . . . .	Markham, ON
Mar 20 . . . . .	Schaumburg, IL	Sep 18 . . . . .	Watertown, CT
Mar 27 . . . . .	Long Island, NY	Sep 25 . . . . .	Schaumburg, IL
Mar 27 . . . . .	Salem, NH	Sep 25 . . . . .	Seattle, WA
Mar 27 . . . . .	Markham, ON	Oct 2 . . . . .	Salem, NH
Apr 3 . . . . .	Ottawa, ON	Oct 9 . . . . .	Palm Bay, FL
Apr 3 . . . . .	Portland, OR	Oct 16 . . . . .	Buffalo, NY
Apr 10 . . . . .	Shoreview, MN	Oct 16 . . . . .	Shoreview, MN
Apr 17 . . . . .	Anaheim, CA	Oct 23 . . . . .	Long Island, NY
Apr 17 . . . . .	Salem, NH	Oct 23 . . . . .	Salem, NH
Apr 24 . . . . .	Santa Clara, CA	Oct 30 . . . . .	Kansas City, MO
May 8 . . . . .	Rochester, NY	Oct 30 . . . . .	Santa Clara, CA
May 8 . . . . .	Salem, NH	Nov 13 . . . . .	Akron, OH
May 8 . . . . .	Schaumburg, IL	Nov 13 . . . . .	Anaheim, CA
May 8 . . . . .	Seattle, WA	Nov 13 . . . . .	Portland, OR
May 15 . . . . .	San Diego, CA	Nov 20 . . . . .	Ottawa, ON
May 22 . . . . .	Santa Clara, CA	Nov 20 . . . . .	San Diego, CA
May 29 . . . . .	Markham, ON	Nov 20 . . . . .	Schaumburg, IL
Jun 5 . . . . .	Portland, OR	Nov 20 . . . . .	Seattle, WA
Jun 12 . . . . .	Shoreview, MN	Nov 20 . . . . .	Watertown, CT
Jun 19 . . . . .	Binghamton, NY	Dec 4 . . . . .	Pittsburgh, PA
Jun 19 . . . . .	Kansas City, MO	Dec 4 . . . . .	Santa Clara, CA
Jun 19 . . . . .	Salem, NH	Dec 4 . . . . .	Shoreview, MN
Jun 26 . . . . .	Anaheim, CA	Dec 11 . . . . .	Salem, NH
Jun 26 . . . . .	Pittsburgh, PA	Dec 18 . . . . .	Salem, NH
Jul 10 . . . . .	Salem, NH		
Jul 17 . . . . .	San Diego, CA		

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.



### 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 Trainer (CIT)

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

Acquire the skills, instructional materials and industry certification to deliver IPC's J-STD-001 Operator Training program.

#### J-STD-001 CIT Certification

Jan 5 - 9	Portland, OR	Jul 13 - 17	Salem, NH
Jan 5 - 9	Rochester, NY	Jul 27 - 31	Anaheim, CA
Jan 5 - 9	Santa Clara, CA	Jul 27 - 31	Kansas City, MO
Jan 12 - 16	Buffalo, NY	Aug 3 - 7	Ottawa, ON
Jan 12 - 16	Shoreview, MN	Aug 10 - 14	Palm Bay, FL
Jan 19 - 23	Salem, NH	Aug 10 - 14	San Diego, CA
Jan 26 - 30	Anaheim, CA	Aug 17 - 21	Akron, OH
Jan 26 - 30	Markham, ON	Aug 17 - 21	Santa Clara, CA
Feb 2 - 6	Watertown, CT	Aug 17 - 21	Schaumburg, IL
Feb 9 - 13	Schaumburg, IL	Aug 17 - 21	Seattle, WA
Feb 16 - 20	Palm Bay, FL	Aug 17 - 21	Watertown, CT
Feb 23 - 27	San Diego, CA	Aug 24 - 28	Pittsburgh, PA
Feb 23 - 27	Seattle, WA	Aug 24 - 28	Rochester, NY
Mar 2 - 6	Pittsburgh, PA	Aug 24 - 28	Markham, ON
Mar 2 - 6	Santa Clara, CA	Aug 31 - Sep 4	Salem, NH
Mar 9 - 13	Kansas City, MO	Sep 21 - 25	Shoreview, MN
Mar 9 - 13	Ottawa, ON	Sep 28 - Oct 2	Portland, OR
Mar 16 - 20	Salem, NH	Sep 28 - Oct 2	Santa Clara, CA
Mar 16 - 20	Shoreview, MN	Oct 5 - 9	Binghamton, NY
Mar 30 - Apr 3	Akron, OH	Oct 5 - 9	Markham, ON
Mar 30 - Apr 3	Anaheim, CA	Oct 12 - 16	Seattle, WA
Mar 30 - Apr 3	Buffalo, NY	Oct 19 - 23	Anaheim, CA
Apr 6 - 10	Markham, ON	Oct 19 - 23	Schaumburg, IL
Apr 6 - 10	Seattle, WA	Oct 26 - 30	Watertown, CT
Apr 6 - 10	Watertown, CT	Nov 2 - 6	Salem, NH
Apr 13 - 17	Binghamton, NY	Nov 2 - 6	Santa Clara, CA
Apr 20 - 24	Rochester, NY	Nov 9 - 13	Palm Bay, FL
Apr 27 - May 1	Portland, OR	Nov 9 - 13	San Diego, CA
Apr 27 - May 1	Schaumburg, IL	Nov 9 - 13	Shoreview, MN
May 4 - 8	Anaheim, CA	Nov 16 - 20	Buffalo, NY
May 4 - 8	Long Island, NY	Nov 23 - 27	Ottawa, ON
May 4 - 8	Santa Clara, CA	Nov 30 - Dec 4	Seattle, WA
May 4 - 8	Shoreview, MN	Dec 7 - 11	Watertown, CT
May 11 - 15	Salem, NH	Dec 14 - 18	Kansas City, MO
May 18 - 22	Palm Bay, FL	Dec 14 - 18	Long Island, NY
Jun 1 - 5	San Diego, CA	Dec 14 - 18	Markham, ON
Jun 15 - 19	Santa Clara, CA		
Jun 15 - 19	Watertown, CT		
Jun 22 - 26	Markham, ON		
Jun 22 - 26	Seattle, WA		
Jul 6 - 10	Shoreview, MN		
Jul 13 - 17	Buffalo, NY		

#### Challenge Test IN-PERSON Salem, NH

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

#### J-STD-001 CIT Recertification

Jan 7 - 8	Palm Bay, FL	Jul 17 - 18	Seattle, WA
Jan 7 - 8	Salem, NH	Jul 24 - 25	Long Island, NY
Jan 8 - 9	San Diego, CA	Jul 8 - 9	Salem, NH
Jan 14 - 15	Watertown, CT	Jul 15 - 16	Palm Bay, FL
Jan 22 - 23	Anaheim, CA	Jul 15 - 16	Markham, ON
Jan 22 - 23	Schaumburg, IL	Jul 22 - 23	Rochester, NY
Jan 28 - 29	Kansas City, MO	Jul 22 - 23	Santa Clara, CA
Feb 4 - 5	Long Island, NY	Jul 29 - 30	Portland, OR
Feb 4 - 5	Santa Clara, CA	Jul 29 - 30	Watertown, CT
Feb 9 - 10	Markham, ON	Aug 12 - 13	Santa Clara, CA
Feb 19 - 20	Akron, OH	Aug 12 - 13	Shoreview, MN
Feb 19 - 20	Seattle, WA	Aug 13 - 14	Buffalo, NY
Feb 25 - 26	Shoreview, MN	Aug 26 - 27	Kansas City, MO
Mar 4 - 5	Rochester, NY	Aug 26 - 27	Palm Bay, FL
Mar 4 - 5	Salem, NH	Sep 2 - 3	Schaumburg, IL
Mar 11 - 12	Palm Bay, FL	Sep 2 - 3	Markham, ON
Mar 25 - 26	Schaumburg, IL	Sep 10 - 11	Binghamton, NY
Mar 26 - 27	Ottawa, ON	Sep 10 - 11	Salem, NH
Apr 15 - 16	Santa Clara, CA	Oct 7 - 8	San Diego, CA
Apr 15 - 16	Seattle, WA	Oct 14 - 15	Santa Clara, CA
Apr 22 - 23	Watertown, CT	Oct 21 - 22	Rochester, NY
Apr 29 - 30	Buffalo, NY	Oct 21 - 22	Seattle, WA
Apr 29 - 30	Markham, ON	Oct 21 - 22	Shoreview, MN
Apr 30 - May 1	Anaheim, CA	Oct 28 - 29	Anaheim, CA
May 6 - 7	Binghamton, NY	Nov 4 - 5	Schaumburg, IL
May 6 - 7	Salem, NH	Nov 4 - 5	Watertown, CT
May 13 - 14	Shoreview, MN	Nov 11 - 12	Salem, NH
Jun 10 - 11	San Diego, CA	Nov 18 - 19	Markham, ON
Jun 17 - 18	Schaumburg, IL		

#### Challenge Test IN-PERSON Salem, NH

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

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

Jan 9	Palm Bay, FL	Aug 14	Shoreview, MN	
Jan 9	Salem, NH	Sep 4	Schaumburg, IL	
Jan 16	Watertown, CT	Sep 4	Markham, ON	
Feb 6	Santa Clara, CA	Sep 28	Salem, NH	
Feb 11	Markham, ON	Oct 16	Santa Clara, CA	
Feb 27	Shoreview, MN	Oct 23	Shoreview, MN	
Mar 6	Rochester, NY	Oct 30	Anaheim, CA	
Mar 6	Salem, NH	Nov 6	Schaumburg, IL	
Mar 27	Schaumburg, IL	Nov 6	Watertown, CT	
Apr 17	Salem, NH	Nov 13	Salem, NH	
Apr 17	Santa Clara, CA	Nov 20	Markham, ON	
Apr 17	Seattle, WA	Dec 21	Salem, NH	
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			
		Jan 16	May 1	Sep 4
		Feb 20	Jun 19	Oct 23
		Mar 6	Jul 17	Nov 6
		Apr 17	Aug 7	Dec 18

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

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

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



### 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	Apr 20 - 24 . . . . . Rochester, NY	Aug 24 - 28 . . . . . Pittsburgh, PA
Jan 5 - 9 . . . . . Rochester, NY	Apr 27 - May 1 . . . . . Portland, OR	Aug 24 - 28 . . . . . Rochester, NY
Jan 5 - 9 . . . . . Santa Clara, CA	Apr 27 - May 1 . . . . . Schaumburg, IL	Aug 24 - 28 . . . . . Salem, NH
Jan 12 - 16 . . . . . Buffalo, NY	May 4 - 8 . . . . . Anaheim, CA	Aug 24 - 28 . . . . . Markham, ON
Jan 12 - 16 . . . . . Salem, NH	May 4 - 8 . . . . . Long Island, NY	Sep 21 - 25 . . . . . Salem, NH
Jan 12 - 16 . . . . . Shoreview, MN	May 4 - 8 . . . . . Santa Clara, CA	Sep 21 - 25 . . . . . Shoreview, MN
Jan 26 - 30 . . . . . Anaheim, CA	May 4 - 8 . . . . . Shoreview, MN	Sep 28 - Oct 2 . . . . . Portland, OR
Jan 26 - 30 . . . . . Markham, ON	May 18 - 22 . . . . . Palm Bay, FL	Sep 28 - Oct 2 . . . . . Santa Clara, CA
Feb 2 - 6 . . . . . Watertown, CT	May 18 - 22 . . . . . Salem, NH	Oct 5 - 9 . . . . . Binghamton, NY
Feb 9 - 13 . . . . . Philadelphia, PA	Jun 1 - 5 . . . . . San Diego, CA	Oct 5 - 9 . . . . . Philadelphia, PA
Feb 9 - 13 . . . . . Schaumburg, IL	Jun 8 - 12 . . . . . Philadelphia, PA	Oct 5 - 9 . . . . . Markham, ON
Feb 16 - 20 . . . . . Palm Bay, FL	Jun 15 - 19 . . . . . Santa Clara, CA	Oct 12 - 16 . . . . . Salem, NH
Feb 23 - 27 . . . . . Salem, NH	Jun 15 - 19 . . . . . Watertown, CT	Oct 12 - 16 . . . . . Seattle, WA
Feb 23 - 27 . . . . . San Diego, CA	Jun 22 - 26 . . . . . Markham, ON	Oct 19 - 23 . . . . . Anaheim, CA
Feb 23 - 27 . . . . . Seattle, WA	Jun 22 - 26 . . . . . Salem, NH	Oct 19 - 23 . . . . . Schaumburg, IL
Feb 23 - 27 . . . . . Syracuse, NY	Jun 22 - 26 . . . . . Seattle, WA	Oct 26 - 30 . . . . . Watertown, CT
Mar 2 - 6 . . . . . Pittsburgh, PA	Jul 6 - 10 . . . . . Shoreview, MN	Nov 2 - 6 . . . . . Santa Clara, CA
Mar 2 - 6 . . . . . Santa Clara, CA	Jul 13 - 17 . . . . . Buffalo, NY	Nov 2 - 6 . . . . . Syracuse, NY
Mar 9 - 13 . . . . . Kansas City, MO	Jul 20 - 24 . . . . . Salem, NH	Nov 9 - 13 . . . . . Palm Bay, FL
Mar 9 - 13 . . . . . Ottawa, ON	Jul 27 - 31 . . . . . Anaheim, CA	Nov 9 - 13 . . . . . San Diego, CA
Mar 16 - 20 . . . . . Shoreview, MN	Jul 27 - 31 . . . . . Kansas City, MO	Nov 9 - 13 . . . . . Shoreview, MN
Mar 23 - 27 . . . . . Salem, NH	Aug 3 - 7 . . . . . Ottawa, ON	Nov 16 - 20 . . . . . Buffalo, NY
Mar 30 - Apr 3 . . . . . Akron, OH	Aug 10 - 14 . . . . . Palm Bay, FL	Nov 16 - 20 . . . . . Salem, NH
Mar 30 - Apr 3 . . . . . Anaheim, CA	Aug 10 - 14 . . . . . San Diego, CA	Nov 23 - 27 . . . . . Ottawa, ON
Mar 30 - Apr 3 . . . . . Buffalo, NY	Aug 17 - 21 . . . . . Akron, OH	Nov 30 - Dec 4 . . . . . Salem, NH
Apr 6 - 10 . . . . . Markham, ON	Aug 17 - 21 . . . . . Halifax, NS	Nov 30 - Dec 4 . . . . . Seattle, WA
Apr 6 - 10 . . . . . Seattle, WA	Aug 17 - 21 . . . . . Santa Clara, CA	Dec 7 - 11 . . . . . Watertown, CT
Apr 6 - 10 . . . . . Watertown, CT	Aug 17 - 21 . . . . . Schaumburg, IL	Dec 14 - 18 . . . . . Kansas City, MO
Apr 13 - 17 . . . . . Binghamton, NY	Aug 17 - 21 . . . . . Seattle, WA	Dec 14 - 18 . . . . . Long Island, NY
Apr 13 - 17 . . . . . Salem, NH	Aug 17 - 21 . . . . . Watertown, CT	Dec 14 - 18 . . . . . Markham, ON

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

Jan 9 . . . . . Palm Bay, FL	Aug 14 . . . . . Shoreview, MN
Jan 9 . . . . . Salem, NH	Sep 4 . . . . . Schaumburg, IL
Jan 16 . . . . . Watertown, CT	Sep 4 . . . . . Markham, ON
Feb 6 . . . . . Santa Clara, CA	Sep 28 . . . . . Salem, NH
Feb 11 . . . . . Markham, ON	Oct 16 . . . . . Santa Clara, CA
Feb 27 . . . . . Shoreview, MN	Oct 23 . . . . . Shoreview, MN
Mar 6 . . . . . Rochester, NY	Oct 30 . . . . . Anaheim, CA
Mar 6 . . . . . Salem, NH	Nov 6 . . . . . Schaumburg, IL
Mar 27 . . . . . Schaumburg, IL	Nov 6 . . . . . Watertown, CT
Apr 17 . . . . . Salem, NH	Nov 13 . . . . . Salem, NH
Apr 17 . . . . . Santa Clara, CA	Nov 20 . . . . . Markham, ON
Apr 17 . . . . . Seattle, WA	Dec 21 . . . . . Salem, NH
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	

#### 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	



### 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 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 5 - 9	Portland, OR	Jul 13 - 17	Salem, NH
Jan 5 - 9	Rochester, NY	Jul 27 - 31	Anaheim, CA
Jan 12 - 16	Buffalo, NY	Jul 27 - 31	Kansas City, MO
Jan 12 - 16	Shoreview, MN	Aug 3 - 7	Ottawa, ON
Jan 19 - 23	Salem, NH	Aug 10 - 14	Palm Bay, FL
Jan 26 - 30	Anaheim, CA	Aug 10 - 14	San Diego, CA
Jan 26 - 30	Markham, ON	Aug 17 - 21	Akron, OH
Feb 2 - 6	Watertown, CT	Aug 17 - 21	Santa Clara, CA
Feb 9 - 13	Schaumburg, IL	Aug 17 - 21	Schaumburg, IL
Feb 16 - 20	Palm Bay, FL	Aug 17 - 21	Seattle, WA
Feb 23 - 27	San Diego, CA	Aug 24 - 28	Watertown, CT
Feb 23 - 27	Seattle, WA	Aug 24 - 28	Pittsburgh, PA
Mar 2 - 6	Pittsburgh, PA	Aug 24 - 28	Rochester, NY
Mar 2 - 6	Santa Clara, CA	Aug 24 - 28	Markham, ON
Mar 9 - 13	Kansas City, MO	Aug 31 - Sep 4	Salem, NH
Mar 9 - 13	Ottawa, ON	Sep 21 - 25	Shoreview, MN
Mar 16 - 20	Salem, NH	Sep 28 - Oct 2	Portland, OR
Mar 16 - 20	Shoreview, MN	Sep 28 - Oct 2	Santa Clara, CA
Mar 30 - Apr 3	Akron, OH	Oct 5 - 9	Binghamton, NY
Mar 30 - Apr 3	Anaheim, CA	Oct 5 - 9	Markham, ON
Mar 30 - Apr 3	Buffalo, NY	Oct 12 - 16	Seattle, WA
Apr 6 - 10	Markham, ON	Oct 19 - 23	Anaheim, CA
Apr 6 - 10	Seattle, WA	Oct 19 - 23	Schaumburg, IL
Apr 6 - 10	Watertown, CT	Oct 26 - 30	Watertown, CT
Apr 13 - 17	Binghamton, NY	Nov 2 - 6	Salem, NH
Apr 20 - 24	Rochester, NY	Nov 2 - 6	Santa Clara, CA
Apr 27 - May 1	Portland, OR	Nov 9 - 13	Palm Bay, FL
Apr 27 - May 1	Schaumburg, IL	Nov 9 - 13	San Diego, CA
May 4 - 8	Anaheim, CA	Nov 9 - 13	Shoreview, MN
May 4 - 8	Long Island, NY	Nov 16 - 20	Buffalo, NY
May 4 - 8	Santa Clara, CA	Nov 23 - 27	Ottawa, ON
May 4 - 8	Shoreview, MN	Nov 30 - Dec 4	Seattle, WA
May 11 - 15	Salem, NH	Dec 7 - 11	Watertown, CT
May 18 - 22	Palm Bay, FL	Dec 14 - 18	Kansas City, MO
Jun 1 - 5	San Diego, CA	Dec 14 - 18	Long Island, NY
Jun 15 - 19	Santa Clara, CA	Dec 14 - 18	Markham, ON
Jun 15 - 19	Watertown, CT		
Jun 22 - 26	Markham, ON		
Jun 22 - 26	Seattle, WA		
Jul 6 - 10	Shoreview, MN		
Jul 13 - 17	Buffalo, NY		

#### 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	

#### J-STD-001 CSE Recertification

Jan 7 - 8	Palm Bay, FL	Jul 17 - 18	Seattle, WA
Jan 7 - 8	Salem, NH	Jul 24 - 25	Long Island, NY
Jan 8 - 9	San Diego, CA	Jul 8 - 9	Salem, NH
Jan 14 - 15	Watertown, CT	Jul 15 - 16	Palm Bay, FL
Jan 22 - 23	Anaheim, CA	Jul 15 - 16	Markham, ON
Jan 22 - 23	Schaumburg, IL	Jul 22 - 23	Rochester, NY
Jan 28 - 29	Kansas City, MO	Jul 29 - 30	Portland, OR
Feb 4 - 5	Long Island, NY	Jul 29 - 30	Santa Clara, CA
Feb 4 - 5	Santa Clara, CA	Jul 29 - 30	Watertown, CT
Feb 9 - 10	Markham, ON	Aug 12 - 13	Santa Clara, CA
Feb 19 - 20	Akron, OH	Aug 12 - 13	Shoreview, MN
Feb 19 - 20	Seattle, WA	Aug 13 - 14	Buffalo, NY
Feb 25 - 26	Shoreview, MN	Aug 26 - 27	Kansas City, MO
Mar 4 - 5	Rochester, NY	Aug 26 - 27	Palm Bay, FL
Mar 4 - 5	Salem, NH	Sep 2 - 3	Schaumburg, IL
Mar 11 - 12	Palm Bay, FL	Sep 2 - 3	Markham, ON
Mar 25 - 26	Schaumburg, IL	Sep 10 - 11	Binghamton, NY
Mar 26 - 27	Ottawa, ON	Sep 10 - 11	Salem, NH
Apr 15 - 16	Santa Clara, CA	Oct 7 - 8	San Diego, CA
Apr 15 - 16	Seattle, WA	Oct 14 - 15	Santa Clara, CA
Apr 22 - 23	Watertown, CT	Oct 21 - 22	Rochester, NY
Apr 29 - 30	Buffalo, NY	Oct 21 - 22	Seattle, WA
Apr 29 - 30	Markham, ON	Oct 21 - 22	Shoreview, MN
Apr 30 - 1	Anaheim, CA	Oct 28 - 29	Anaheim, CA
May 6 - 7	Binghamton, NY	Nov 4 - 5	Schaumburg, IL
May 6 - 7	Salem, NH	Nov 4 - 5	Watertown, CT
May 13 - 14	Shoreview, MN	Nov 11 - 12	Salem, NH
Jun 10 - 11	San Diego, CA	Nov 18 - 19	Markham, ON
Jun 17 - 18	Schaumburg, IL		

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

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

Jan 9	Palm Bay, FL	Jul 13	Watertown, CT
Jan 9	Salem, NH	Aug 31	Shoreview, MN
Jan 16	Watertown, CT	Sep 4	Schaumburg, IL
Feb 6	Santa Clara, CA	Sep 4	Markham, ON
Feb 11	Markham, ON	Sep 28	Salem, NH
Feb 27	Shoreview, MN	Oct 16	Santa Clara, CA
Mar 6	Rochester, NY	Oct 23	Shoreview, MN
Mar 6	Salem, NH	Oct 30	Anaheim, CA
Mar 27	Schaumburg, IL	Nov 6	Schaumburg, IL
Apr 17	Salem, NH	Nov 6	Watertown, CT
Apr 17	Santa Clara, CA	Nov 13	Salem, NH
Apr 17	Seattle, WA	Nov 20	Markham, ON
Apr 24	Watertown, CT	Dec 21	Salem, NH
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		

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

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



### 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 Space Addendum (CIT, CIS, CSE)

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

Acquire the skills, instructional materials and industry certification to deliver IPC's J-STD-001 Operator Training program.

### J-STD-001 CIT, CIS & CSE Space Addendum Certification and Recertification

Jan 9 . . . . . Palm Bay, FL	Aug 14 . . . . . Shoreview, MN
Jan 9 . . . . . Salem, NH	Sep 4 . . . . . Schaumburg, IL
Jan 16 . . . . . Watertown, CT	Sep 4 . . . . . Markham, ON
Feb 6 . . . . . Santa Clara, CA	Sep 28 . . . . . Salem, NH
Feb 11 . . . . . Markham, ON	Oct 16 . . . . . Santa Clara, CA
Feb 27 . . . . . Shoreview, MN	Oct 23 . . . . . Shoreview, MN
Mar 6 . . . . . Rochester, NY	Oct 30 . . . . . Anaheim, CA
Mar 6 . . . . . Salem, NH	Nov 6 . . . . . Schaumburg, IL
Mar 27 . . . . . Schaumburg, IL	Nov 6 . . . . . Watertown, CT
Apr 17 . . . . . Salem, NH	Nov 13 . . . . . Salem, NH
Apr 17 . . . . . Santa Clara, CA	Nov 20 . . . . . Markham, ON
Apr 17 . . . . . Seattle, WA	Dec 21 . . . . . Salem, NH
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	

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

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

### Challenge Test IN-PERSON Salem, NH

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

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.



### 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 IPC Trainer (CIT)

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

Become an expert in the quality standards of Wire, Cable and Harness, and be certified for inspection and instruction.

#### IPC-A-620 CIT Certification

Jan 5 - 8 . . . . . Kansas City, MO  
Jan 5 - 8 . . . . . Ottawa, ON  
Jan 6 - 9 . . . . . Shoreview, MN  
Jan 12 - 15 . . . . . Salem, NH  
Jan 12 - 15 . . . . . Santa Clara, CA  
Jan 19 - 22 . . . . . Long Island, NY  
Jan 26 - 29 . . . . . Portland, OR  
Feb 2 - 5 . . . . . Anaheim, CA  
Feb 9 - 12 . . . . . San Diego, CA  
Feb 9 - 12 . . . . . Seattle, WA  
Feb 9 - 12 . . . . . Watertown, CT  
Feb 16 - 19 . . . . . Santa Clara, CA  
Feb 17 - 20 . . . . . Markham, ON  
Feb 23 - 26 . . . . . Pittsburgh, PA  
Feb 23 - 26 . . . . . Schaumburg, IL  
Mar 2 - 5 . . . . . Palm Bay, FL  
Mar 9 - 12 . . . . . Santa Clara, CA  
Mar 9 - 12 . . . . . Shoreview, MN  
Mar 16 - 19 . . . . . Buffalo, NY  
Mar 16 - 19 . . . . . Portland, OR  
Mar 23 - 26 . . . . . Rochester, NY  
Apr 6 - 9 . . . . . San Diego, CA  
Apr 13 - 16 . . . . . Markham, ON  
Apr 13 - 16 . . . . . Schaumburg, IL  
Apr 13 - 16 . . . . . Watertown, CT  
Apr 20 - 23 . . . . . Anaheim, CA  
Apr 20 - 23 . . . . . Salem, NH  
Apr 20 - 23 . . . . . Seattle, WA  
May 4 - 7 . . . . . Kansas City, MO  
May 11 - 14 . . . . . Long Island, NY  
May 11 - 14 . . . . . Santa Clara, CA  
May 18 - 21 . . . . . Akron, OH  
May 18 - 21 . . . . . Portland, OR  
May 18 - 21 . . . . . Shoreview, MN  
Jun 1 - 4 . . . . . Palm Bay, FL  
Jun 1 - 4 . . . . . Schaumburg, IL  
Jun 8 - 11 . . . . . Buffalo, NY  
Jun 8 - 11 . . . . . Seattle, WA  
Jun 15 - 18 . . . . . Anaheim, CA  
Jun 15 - 18 . . . . . Markham, ON  
Jun 22 - 25 . . . . . Ottawa, ON  
Jun 22 - 25 . . . . . Rochester, NY  
Jun 22 - 25 . . . . . Santa Clara, CA  
Jun 22 - 25 . . . . . Watertown, CT  
Jul 13 - 16 . . . . . Shoreview, MN  
Jul 20 - 23 . . . . . Salem, NH

Aug 3 - 6 . . . . . Portland, OR  
Aug 3 - 6 . . . . . Santa Clara, CA  
Aug 3 - 6 . . . . . San Diego, CA  
Aug 10 - 13 . . . . . Schaumburg, IL  
Aug 10 - 13 . . . . . Seattle, WA  
Aug 10 - 13 . . . . . Watertown, CT  
Aug 17 - 20 . . . . . Anaheim, CA  
Aug 17 - 20 . . . . . Markham, ON  
Aug 31 - Sep 3 Shoreview, MN  
Sep 8 - 11 . . . . . Pittsburgh, PA  
Sep 14 - 17 . . . . . Akron, OH  
Sep 14 - 17 . . . . . Santa Clara, CA  
Sep 21 - 24 . . . . . Buffalo, NY  
Sep 21 - 24 . . . . . Palm Bay, FL  
Sep 28 - Oct 1 . . . . . Long Island, NY  
Oct 5 - 8 . . . . . Rochester, NY  
Oct 5 - 8 . . . . . Salem, NH  
Oct 5 - 8 . . . . . Schaumburg, IL  
Oct 5 - 8 . . . . . Seattle, WA  
Oct 12 - 15 . . . . . Kansas City, MO  
Oct 12 - 15 . . . . . San Diego, CA  
Oct 19 - 22 . . . . . Watertown, CT  
Oct 26 - 29 . . . . . Portland, OR  
Oct 26 - 29 . . . . . Markham, ON  
Nov 2 - 5 . . . . . Anaheim, CA  
Nov 2 - 5 . . . . . Ottawa, ON  
Nov 2 - 5 . . . . . Shoreview, MN  
Nov 9 - 12 . . . . . Santa Clara, CA  
Nov 30 - Dec 3 Markham, ON  
Dec 7 - 10 . . . . . Palm Bay, FL  
Dec 7 - 10 . . . . . Schaumburg, IL  
Dec 7 - 10 . . . . . Seattle, WA  
Dec 14 - 17 . . . . . Watertown, CT

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

Jan 12 - 15	Jul 6 - 9
Feb 2 - 5	Jul 27 - 30
Feb 23 - 26	Aug 17 - 20
Mar 16 - 19	Sep 8 - 11
Mar 30 - Apr 2	Sep 28 - Oct 1
Apr 13 - 16	Oct 19 - 22
Apr 27 - 30	Nov 9 - 12
May 18 - 21	Nov 30 - Dec 3
Jun 8 - 11	Dec 21 - 24

#### 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	

#### IPC-A-620 CIT Recertification

Feb 4 - 5 . . . . . Palm Bay, FL  
Feb 23 - 24 . . . . . Anaheim, CA  
Feb 23 - 24 . . . . . Salem, NH  
Mar 23 - 24 . . . . . Watertown, CT  
Mar 30 - 31 . . . . . Shoreview, MN  
Apr 1 - 2 . . . . . Santa Clara, CA  
Apr 30 - May 1 Long Island, NY  
Apr 30 - May 1 Salem, NH  
May 18 - 19 . . . . . Watertown, CT  
May 21 - 22 . . . . . Markham, ON  
May 28 - 29 . . . . . Seattle, WA  
Jun 22 - 23 . . . . . Shoreview, MN  
Jun 29 - 30 . . . . . Palm Bay, FL  
Jun 29 - 30 . . . . . Pittsburgh, PA  
Jun 29 - 30 . . . . . Salem, NH  
Jul 1 - 2 . . . . . Santa Clara, CA  
Aug 6 - 7 . . . . . Watertown, CT  
Sep 10 - 11 . . . . . Anaheim, CA  
Sep 10 - 11 . . . . . Kansas City, MO  
Sep 10 - 11 . . . . . Rochester, NY

Sep 10 - 11 . . . . . Seattle, WA  
Sep 10 - 11 . . . . . Shoreview, MN  
Sep 28 - 29 . . . . . Markham, ON  
Sep 29 - 30 . . . . . Salem, NH  
Oct 1 - 2 . . . . . Palm Bay, FL  
Oct 1 - 2 . . . . . Watertown, CT  
Oct 14 - 15 . . . . . Schaumburg, IL  
Nov 23 - 24 . . . . . Long Island, NY  
Nov 23 - 24 . . . . . Salem, NH  
Dec 21 - 22 . . . . . Santa Clara, CA  
Dec 21 - 22 . . . . . Markham, ON

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

Jan 21 - 22  
Mar 4 - 5  
May 6 - 7  
Jul 22 - 23  
Aug 26 - 27  
Nov 4 - 5

### 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	

### ALSO AVAILABLE

#### EPTAC Hands-on Cable & Wire Harness 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.



### 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 IPC Specialist (CIS)

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

Learn assembly requirements and accept/reject criteria for all three classes of cable and wire harness assembly.

#### IPC-A-620 CIS Certification & Recertification

Jan 5 - 8 . . . . . Kansas City, MO	May 18 - 21 . . . . . Binghamton, NY	Sep 21 - 24 . . . . . Palm Bay, FL
Jan 5 - 8 . . . . . Ottawa, ON	May 18 - 21 . . . . . Portland, OR	Sep 28 - Oct 1 . . . . . Long Island, NY
Jan 6 - 9 . . . . . Shoreview, MN	May 18 - 21 . . . . . Salem, NH	Sep 28 - Oct 1 . . . . . Syracuse, NY
Jan 12 - 15 . . . . . Santa Clara, CA	May 18 - 21 . . . . . Shoreview, MN	Oct 5 - 8 . . . . . Rochester, NY
Jan 19 - 22 . . . . . Long Island, NY	Jun 1 - 4 . . . . . Palm Bay, FL	Oct 5 - 8 . . . . . Schaumburg, IL
Jan 26 - 29 . . . . . Portland, OR	Jun 1 - 4 . . . . . Salem, NH	Oct 5 - 8 . . . . . Seattle, WA
Feb 2 - 5 . . . . . Anaheim, CA	Jun 1 - 4 . . . . . Schaumburg, IL	Oct 12 - 15 . . . . . Kansas City, MO
Feb 2 - 5 . . . . . Atlanta, GA	Jun 8 - 11 . . . . . Buffalo, NY	Oct 12 - 15 . . . . . San Diego, CA
Feb 9 - 12 . . . . . San Diego, CA	Jun 8 - 11 . . . . . Seattle, WA	Oct 19 - 22 . . . . . Watertown, CT
Feb 9 - 12 . . . . . Seattle, WA	Jun 15 - 18 . . . . . Anaheim, CA	Oct 26 - 29 . . . . . Portland, OR
Feb 9 - 12 . . . . . Watertown, CT	Jun 15 - 18 . . . . . Markham, ON	Oct 26 - 29 . . . . . Markham, ON
Feb 16 - 19 . . . . . Salem, NH	Jun 22 - 25 . . . . . Ottawa, ON	Nov 2 - 5 . . . . . Anaheim, CA
Feb 16 - 19 . . . . . Santa Clara, CA	Jun 22 - 25 . . . . . Rochester, NY	Nov 2 - 5 . . . . . Ottawa, ON
Feb 17 - 20 . . . . . Markham, ON	Jun 22 - 25 . . . . . Santa Clara, CA	Nov 2 - 5 . . . . . Shoreview, MN
Feb 23 - 26 . . . . . Pittsburgh, PA	Jun 22 - 25 . . . . . Watertown, CT	Nov 9 - 12 . . . . . Salem, NH
Feb 23 - 26 . . . . . Schaumburg, IL	Jul 6 - 9 . . . . . Syracuse, NY	Nov 9 - 12 . . . . . Santa Clara, CA
Mar 2 - 5 . . . . . Palm Bay, FL	Jul 13 - 16 . . . . . Shoreview, MN	Nov 16 - 19 . . . . . Atlanta, GA
Mar 9 - 12 . . . . . Salem, NH	Aug 3 - 6 . . . . . Atlanta, GA	Nov 30 - Dec 3 . . . . . Markham, ON
Mar 9 - 12 . . . . . Santa Clara, CA	Aug 3 - 6 . . . . . Portland, OR	Dec 7 - 10 . . . . . Palm Bay, FL
Mar 9 - 12 . . . . . Shoreview, MN	Aug 3 - 6 . . . . . Salem, NH	Dec 7 - 10 . . . . . Philadelphia, PA
Mar 9 - 12 . . . . . Syracuse, NY	Aug 3 - 6 . . . . . Santa Clara, CA	Dec 7 - 10 . . . . . Schaumburg, IL
Mar 16 - 19 . . . . . Buffalo, NY	Aug 3 - 6 . . . . . San Diego, CA	Dec 7 - 10 . . . . . Seattle, WA
Mar 16 - 19 . . . . . Portland, OR	Aug 10 - 13 . . . . . Philadelphia, PA	Dec 14 - 17 . . . . . Watertown, CT
Mar 23 - 26 . . . . . Rochester, NY	Aug 10 - 13 . . . . . Schaumburg, IL	Dec 28 - 31 . . . . . Salem, NH
Apr 6 - 9 . . . . . San Diego, CA	Aug 10 - 13 . . . . . Seattle, WA	
Apr 13 - 16 . . . . . Markham, ON	Aug 10 - 13 . . . . . Watertown, CT	
Apr 13 - 16 . . . . . Philadelphia, PA	Aug 17 - 20 . . . . . Anaheim, CA	
Apr 13 - 16 . . . . . Schaumburg, IL	Aug 17 - 20 . . . . . Markham, ON	
Apr 13 - 16 . . . . . Watertown, CT	Aug 31 - Sep 3 . . . . . Binghamton, NY	
Apr 20 - 23 . . . . . Anaheim, CA	Aug 31 - Sep 3 . . . . . Shoreview, MN	
Apr 20 - 23 . . . . . Seattle, WA	Sep 8 - 11 . . . . . Pittsburgh, PA	
May 4 - 7 . . . . . Atlanta, GA	Sep 14 - 17 . . . . . Akron, OH	
May 4 - 7 . . . . . Kansas City, MO	Sep 14 - 17 . . . . . Halifax, NS	
May 11 - 14 . . . . . Long Island, NY	Sep 14 - 17 . . . . . Salem, NH	
May 11 - 14 . . . . . Santa Clara, CA	Sep 14 - 17 . . . . . Santa Clara, CA	
May 18 - 21 . . . . . Akron, OH	Sep 21 - 24 . . . . . Buffalo, NY	

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

Jan 12 - 15	Jul 6 - 9
Feb 2 - 5	Jul 27 - 30
Feb 23 - 26	Aug 17 - 20
Mar 16 - 19	Sep 8 - 11
Mar 30 - Apr 2	Sep 28 - Oct 1
Apr 13 - 16	Oct 19 - 22
Apr 27 - 30	Nov 9 - 12
May 18 - 21	Nov 30 - Dec 3
Jun 8 - 11	Dec 21 - 24

#### 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 9
Apr 29	Sep 2	

#### ALSO AVAILABLE

#### EPTAC Hands-on Cable & Wire Harness 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.



### 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 5 - 8 . . . . . Kansas City, MO	Aug 3 - 6 . . . . . Portland, OR
Jan 5 - 8 . . . . . Ottawa, ON	Aug 3 - 6 . . . . . Santa Clara, CA
Jan 6 - 9 . . . . . Shoreview, MN	Aug 3 - 6 . . . . . San Diego, CA
Jan 12 - 15 . . . . . Salem, NH	Aug 10 - 13 . . . . . Schaumburg, IL
Jan 12 - 15 . . . . . Santa Clara, CA	Aug 10 - 13 . . . . . Seattle, WA
Jan 19 - 22 . . . . . Long Island, NY	Aug 10 - 13 . . . . . Watertown, CT
Jan 26 - 29 . . . . . Portland, OR	Aug 17 - 20 . . . . . Anaheim, CA
Feb 2 - 5 . . . . . Anaheim, CA	Aug 17 - 20 . . . . . Markham, ON
Feb 9 - 12 . . . . . San Diego, CA	Aug 31 - Sep 3 . . . . . Shoreview, MN
Feb 9 - 12 . . . . . Seattle, WA	Sep 8 - 11 . . . . . Pittsburgh, PA
Feb 9 - 12 . . . . . Watertown, CT	Sep 14 - 17 . . . . . Akron, OH
Feb 16 - 19 . . . . . Santa Clara, CA	Sep 14 - 17 . . . . . Santa Clara, CA
Feb 17 - 20 . . . . . Markham, ON	Sep 21 - 24 . . . . . Buffalo, NY
Feb 23 - 26 . . . . . Pittsburgh, PA	Sep 21 - 24 . . . . . Palm Bay, FL
Feb 23 - 26 . . . . . Schaumburg, IL	Sep 28 - Oct 1 . . . . . Long Island, NY
Mar 2 - 5 . . . . . Palm Bay, FL	Oct 5 - 8 . . . . . Rochester, NY
Mar 9 - 12 . . . . . Santa Clara, CA	Oct 5 - 8 . . . . . Salem, NH
Mar 9 - 12 . . . . . Shoreview, MN	Oct 5 - 8 . . . . . Schaumburg, IL
Mar 16 - 19 . . . . . Buffalo, NY	Oct 5 - 8 . . . . . Seattle, WA
Mar 16 - 19 . . . . . Portland, OR	Oct 12 - 15 . . . . . Kansas City, MO
Mar 23 - 26 . . . . . Rochester, NY	Oct 12 - 15 . . . . . San Diego, CA
Apr 6 - 9 . . . . . San Diego, CA	Oct 19 - 22 . . . . . Watertown, CT
Apr 13 - 16 . . . . . Markham, ON	Oct 26 - 29 . . . . . Portland, OR
Apr 13 - 16 . . . . . Schaumburg, IL	Oct 26 - 29 . . . . . Markham, ON
Apr 13 - 16 . . . . . Watertown, CT	Nov 2 - 5 . . . . . Anaheim, CA
Apr 20 - 23 . . . . . Anaheim, CA	Nov 2 - 5 . . . . . Ottawa, ON
Apr 20 - 23 . . . . . Salem, NH	Nov 2 - 5 . . . . . Shoreview, MN
Apr 20 - 23 . . . . . Seattle, WA	Nov 9 - 12 . . . . . Santa Clara, CA
May 4 - 7 . . . . . Kansas City, MO	Nov 30 - Dec 3 . . . . . Markham, ON
May 11 - 14 . . . . . Long Island, NY	Dec 7 - 10 . . . . . Palm Bay, FL
May 11 - 14 . . . . . Santa Clara, CA	Dec 7 - 10 . . . . . Schaumburg, IL
May 18 - 21 . . . . . Akron, OH	Dec 7 - 10 . . . . . Seattle, WA
May 18 - 21 . . . . . Portland, OR	Dec 14 - 17 . . . . . Watertown, CT
May 18 - 21 . . . . . Shoreview, MN	

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

Jan 12 - 15	Jul 6 - 9
Feb 2 - 5	Jul 27 - 30
Feb 23 - 26	Aug 17 - 20
Mar 16 - 19	Sep 8 - 11
Mar 30 - Apr 2	Sep 28 - Oct 1
Apr 13 - 16	Oct 19 - 22
Apr 27 - 30	Nov 9 - 12
May 18 - 21	Nov 30 - Dec 3
Jun 8 - 11	Dec 21 - 24

#### 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 25
Apr 1	Aug 5	Dec 9
Apr 15	Aug 19	Dec 21
Apr 29	Sep 2	

#### IPC-A-620 CSE Recertification

Feb 4 - 5 . . . . . Palm Bay, FL	Sep 10 - 11 . . . . . Seattle, WA
Feb 23 - 24 . . . . . Anaheim, CA	Sep 10 - 11 . . . . . Shoreview, MN
Feb 23 - 24 . . . . . Salem, NH	Sep 28 - 29 . . . . . Markham, ON
Mar 23 - 24 . . . . . Watertown, CT	Sep 29 - 30 . . . . . Salem, NH
Mar 30 - 31 . . . . . Shoreview, MN	Oct 1 - 2 . . . . . Palm Bay, FL
Apr 1 - 2 . . . . . Santa Clara, CA	Oct 1 - 2 . . . . . Watertown, CT
Apr 30 - May 1 . . . . . Long Island, NY	Oct 14 - 15 . . . . . Schaumburg, IL
Apr 30 - May 1 . . . . . Salem, NH	Nov 23 - 24 . . . . . Long Island, NY
May 18 - 19 . . . . . Watertown, CT	Nov 23 - 24 . . . . . Salem, NH
May 21 - 22 . . . . . Markham, ON	Dec 21 - 22 . . . . . Santa Clara, CA
May 28 - 29 . . . . . Seattle, WA	Dec 21 - 22 . . . . . Markham, ON
Jun 22 - 23 . . . . . Shoreview, MN	
Jun 29 - 30 . . . . . Palm Bay, FL	
Jun 29 - 30 . . . . . Pittsburgh, PA	
Jun 29 - 30 . . . . . Salem, NH	
Jul 1 - 2 . . . . . Santa Clara, CA	
Aug 6 - 7 . . . . . Watertown, CT	
Sep 10 - 11 . . . . . Anaheim, CA	
Sep 10 - 11 . . . . . Kansas City, MO	
Sep 10 - 11 . . . . . Rochester, NY	

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

Jan 21 - 22		
Mar 4 - 5		
May 6 - 7		
Jul 22 - 23		
Aug 26 - 27		
Nov 4 - 5		

#### 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 25
Apr 1	Aug 5	Dec 9
Apr 15	Aug 19	Dec 21
Apr 29	Sep 2	

#### ALSO AVAILABLE

#### EPTAC Hands-on Cable & Wire Harness 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.



### 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

## EPTAC Hands-on Cable & Wire Harness Lab

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

### EPTAC Hands-on Cable & Wire Harness Lab

Jan 9 . . . . .	Kansas City, MO	Jun 26 . . . . .	Rochester, NY
Jan 9 . . . . .	Ottawa, ON	Jun 26 . . . . .	Santa Clara, CA
Jan 16 . . . . .	Salem, NH	Jun 26 . . . . .	Watertown, CT
Jan 16 . . . . .	Santa Clara, CA	Jul 10 . . . . .	Syracuse, NY
Feb 6 . . . . .	Anaheim, CA	Jul 17 . . . . .	Shoreview, MN
Feb 6 . . . . .	Atlanta, GA	Jul 24 . . . . .	Salem, NH
Feb 13 . . . . .	San Diego, CA	Aug 7 . . . . .	Santa Clara, CA
Feb 13 . . . . .	Seattle, WA	Aug 7 . . . . .	Atlanta, GA
Feb 13 . . . . .	Watertown, CT	Aug 7 . . . . .	Portland, OR
Feb 20 . . . . .	Salem, NH	Aug 7 . . . . .	Salem, NH
Feb 20 . . . . .	Santa Clara, CA	Aug 7 . . . . .	San Diego, CA
Feb 27 . . . . .	Pittsburgh, PA	Aug 14 . . . . .	Schaumburg, IL
Feb 27 . . . . .	Schaumburg, IL	Aug 14 . . . . .	Watertown, CT
Mar 13 . . . . .	Salem, NH	Aug 21 . . . . .	Anaheim, CA
Mar 13 . . . . .	Santa Clara, CA	Aug 21 . . . . .	Seattle, WA
Mar 13 . . . . .	Shoreview, MN	Aug 21 . . . . .	Markham, ON
Mar 13 . . . . .	Syracuse, NY	Sep 4 . . . . .	Binghamton, NY
Mar 20 . . . . .	Buffalo, NY	Sep 4 . . . . .	Shoreview, MN
Mar 20 . . . . .	Portland, OR	Sep 18 . . . . .	Akron, OH
Mar 27 . . . . .	Rochester, NY	Sep 18 . . . . .	Salem, NH
Apr 10 . . . . .	San Diego, CA	Sep 18 . . . . .	Santa Clara, CA
Apr 17 . . . . .	Schaumburg, IL	Sep 25 . . . . .	Buffalo, NY
Apr 17 . . . . .	Markham, ON	Oct 2 . . . . .	Long Island, NY
Apr 17 . . . . .	Watertown, CT	Oct 9 . . . . .	Rochester, NY
Apr 24 . . . . .	Anaheim, CA	Oct 9 . . . . .	Salem, NH
Apr 24 . . . . .	Salem, NH	Oct 9 . . . . .	Schaumburg, IL
Apr 24 . . . . .	Seattle, WA	Oct 9 . . . . .	Seattle, WA
May 8 . . . . .	Atlanta, GA	Oct 16 . . . . .	Kansas City, MO
May 8 . . . . .	Kansas City, MO	Oct 16 . . . . .	San Diego, CA
May 15 . . . . .	Long Island, NY	Oct 23 . . . . .	Watertown, CT
May 15 . . . . .	Santa Clara, CA	Oct 30 . . . . .	Portland, OR
May 22 . . . . .	Binghamton, NY	Oct 30 . . . . .	Markham, ON
May 22 . . . . .	Salem, NH	Nov 6 . . . . .	Anaheim, CA
May 22 . . . . .	Shoreview, MN	Nov 6 . . . . .	Ottawa, ON
Jun 5 . . . . .	Palm Bay, FL	Nov 6 . . . . .	Shoreview, MN
Jun 5 . . . . .	Salem, NH	Nov 13 . . . . .	Salem, NH
Jun 5 . . . . .	Schaumburg, IL	Nov 13 . . . . .	Santa Clara, CA
Jun 12 . . . . .	Buffalo, NY	Dec 4 . . . . .	Markham, ON
Jun 12 . . . . .	Seattle, WA	Dec 11 . . . . .	Schaumburg, IL
Jun 19 . . . . .	Anaheim, CA	Dec 11 . . . . .	Seattle, WA
Jun 19 . . . . .	Markham, ON	Dec 18 . . . . .	Watertown, CT
Jun 26 . . . . .	Ottawa, ON		

### ALSO AVAILABLE

### Crimp Terminations Certification & Recertification

Jan 26 . . . . .	Salem, NH
Aug 14 . . . . .	Salem, NH
Dec 23 . . . . .	Salem, 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.



### 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-600 Certified IPC Trainer (CIT)

### IPC-A-600 "The Acceptability of Printed Boards"

Become an expert in the quality standards of printed circuit boards and be certified for inspection and instruction.

#### IPC-A-600 CIT Certification & Recertification

Jun 29 - Jul 1 . . . Salem, NH  
Oct 13 - 15 . . . Salem, NH

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

Jan 5 - 7  
Mar 16 - 18  
May 11 - 13  
Jun 29 - Jul 1  
Sep 9 - 11  
Nov 2 - 4

#### 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

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.



### 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-600 Certified IPC Specialist (CIS)

### IPC-A-600 "The Acceptability of Printed Boards"

Learn quality standards of PCBs and be certified for inspection of bare boards.

#### IPC-A-600 CIS Certification & Recertification

Jun 29 - Jul 1 . . . Salem, NH  
Oct 13 - 15 . . . Salem, NH

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

Jan 5 - 7  
Mar 16 - 18  
May 11 - 13  
Jun 29 - Jul 1  
Sep 9 - 11  
Nov 2 - 4

#### 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

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.



### 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-600 Certified Standards Expert (CSE)

### IPC-A-600 "The Acceptability of Printed Boards"

Become a subject matter expert in IPC-A-600.

#### IPC-A-600 CSE Certification & Recertification

Jun 29 - Jul 1 . . . Salem, NH  
Oct 13 - 15 . . . Salem, NH

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

Jan 5 - 7  
Mar 16 - 18  
May 11 - 13  
Jun 29 - Jul 1  
Sep 9 - 11  
Nov 2 - 4

#### 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	

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.



### 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-7711/7721 Certified IPC Trainer (CIT)

### IPC-7711 "Rework of Electronic Assemblies"

### IPC-7721 "Repair & Modification of Printed Boards and Electronic Assemblies"

Become qualified to instruct operators in the required knowledge and skills for component rework and bare board repair.

#### IPC-7711/7721 CIT Certification

Jan 19 - 23 . . . . . Markham, ON	Jul 20 - 24 . . . . . Watertown, CT
Jan 26 - 30 . . . . . Santa Clara, CA	Aug 3 - 7 . . . . . Markham, ON
Feb 9 - 13 . . . . . Salem, NH	Aug 10 - 14 . . . . . Salem, NH
Mar 2 - 6 . . . . . Watertown, CT	Aug 24 - 28 . . . . . Santa Clara, CA
Mar 9 - 13 . . . . . Markham, ON	Aug 24 - 28 . . . . . Shoreview, MN
Mar 23 - 26 . . . . . Palm Bay, FL	Oct 5 - 9 . . . . . Watertown, CT
Mar 23 - 27 . . . . . Shoreview, MN	Oct 19 - 23 . . . . . Santa Clara, CA
Apr 6 - 10 . . . . . Salem, NH	Oct 19 - 23 . . . . . Markham, ON
Apr 6 - 10 . . . . . Santa Clara, CA	Oct 26 - 30 . . . . . Salem, NH
Apr 20 - 24 . . . . . Schaumburg, IL	Oct 26 - 30 . . . . . Schaumburg, IL
Jun 1 - 5 . . . . . Salem, NH	Nov 16 - 20 . . . . . Shoreview, MN
Jun 1 - 5 . . . . . Shoreview, MN	Nov 30 - Dec 4 . . . . . Salem, NH
Jun 8 - 12 . . . . . Markham, ON	Dec 7 - 11 . . . . . Markham, ON
Jun 8 - 12 . . . . . Santa Clara, CA	Dec 14 - 17 . . . . . Palm Bay, FL
Jul 6 - 10 . . . . . Schaumburg, IL	

#### IPC-7711/7721 CIT Recertification

Jan 19 - 20 . . . . . Shoreview, MN	Jun 29 - 30 . . . . . Santa Clara, CA
Jan 29 - 30 . . . . . Salem, NH	Jul 20 - 21 . . . . . Shoreview, MN
Feb 2 - 3 . . . . . Palm Bay, FL	Jul 29 - 30 . . . . . Salem, NH
Feb 12 - 13 . . . . . Markham, ON	Jul 30 - 31 . . . . . Schaumburg, IL
Feb 19 - 20 . . . . . Schaumburg, IL	Sep 2 - 3 . . . . . Salem, NH
Mar 25 - 26 . . . . . Santa Clara, CA	Sep 10 - 11 . . . . . Markham, ON
Mar 31 - Apr 1 . . . . . Salem, NH	Oct 26 - 27 . . . . . Shoreview, MN
Apr 13 - 14 . . . . . Shoreview, MN	Nov 12 - 13 . . . . . Markham, ON
May 4 - 5 . . . . . Markham, ON	Nov 16 - 17 . . . . . Palm Bay, FL
May 27 - 28 . . . . . Santa Clara, CA	Nov 23 - 24 . . . . . Salem, NH
May 28 - 29 . . . . . Salem, NH	Nov 23 - 24 . . . . . Santa Clara, CA
May 28 - 29 . . . . . Schaumburg, IL	Nov 23 - 24 . . . . . Schaumburg, IL
Jun 8 - 9 . . . . . Palm Bay, FL	Nov 23 - 24 . . . . . Watertown, CT
Jun 10 - 11 . . . . . Watertown, CT	

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.



### 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-7711/7721 Certified IPC Specialist (CIS)

### IPC-7711 "Rework of Electronic Assemblies"

### IPC-7721 "Repair & Modification of Printed Boards and Electronic Assemblies"

Learn general requirements and practice damage-free removal and replacement techniques for wires and terminals, through-hole and surface mount components. Develop skills for repairing PWBs, including conductor/ land repair, lifted conductor/ land/pad repair and base material.

#### IPC-7711/7721 CIS Certification

Jan 19 - 23 . . . Markham, ON	Jul 20 - 24 . . . Watertown, CT
Jan 26 - 30 . . . Santa Clara, CA	Aug 3 - 7 . . . Markham, ON
Feb 9 - 13 . . . Salem, NH	Aug 10 - 14 . . . Salem, NH
Mar 2 - 6 . . . Watertown, CT	Aug 24 - 28 . . . Santa Clara, CA
Mar 9 - 13 . . . Markham, ON	Aug 24 - 28 . . . Shoreview, MN
Mar 23 - 26 . . . Palm Bay, FL	Oct 5 - 9 . . . Watertown, CT
Mar 23 - 27 . . . Shoreview, MN	Oct 19 - 23 . . . Santa Clara, CA
Apr 6 - 10 . . . Salem, NH	Oct 19 - 23 . . . Markham, ON
Apr 6 - 10 . . . Santa Clara, CA	Oct 26 - 30 . . . Salem, NH
Apr 20 - 24 . . . Schaumburg, IL	Oct 26 - 30 . . . Schaumburg, IL
Jun 1 - 5 . . . Salem, NH	Nov 16 - 20 . . . Shoreview, MN
Jun 1 - 5 . . . Shoreview, MN	Nov 30 - Dec 4 . . . Salem, NH
Jun 8 - 12 . . . Markham, ON	Dec 7 - 11 . . . Markham, ON
Jun 8 - 12 . . . Santa Clara, CA	Dec 14 - 17 . . . Palm Bay, FL
Jul 6 - 10 . . . Schaumburg, IL	

#### IPC-7711/7721 CIS Recertification

Jan 19 - 20 . . . Shoreview, MN	Jun 29 - 30 . . . Santa Clara, CA
Jan 29 - 30 . . . Salem, NH	Jul 20 - 21 . . . Shoreview, MN
Feb 2 - 3 . . . Palm Bay, FL	Jul 29 - 30 . . . Salem, NH
Feb 12 - 13 . . . Markham, ON	Jul 30 - 31 . . . Schaumburg, IL
Feb 19 - 20 . . . Schaumburg, IL	Sep 2 - 3 . . . Salem, NH
Mar 25 - 26 . . . Santa Clara, CA	Sep 10 - 11 . . . Markham, ON
Mar 31 - Apr 1 . . . Salem, NH	Oct 26 - 27 . . . Shoreview, MN
Apr 13 - 14 . . . Shoreview, MN	Nov 12 - 13 . . . Markham, ON
May 4 - 5 . . . Markham, ON	Nov 16 - 17 . . . Palm Bay, FL
May 27 - 28 . . . Santa Clara, CA	Nov 23 - 24 . . . Salem, NH
May 28 - 29 . . . Salem, NH	Nov 23 - 24 . . . Santa Clara, CA
May 28 - 29 . . . Schaumburg, IL	Nov 23 - 24 . . . Schaumburg, IL
Jun 8 - 9 . . . Palm Bay, FL	Nov 23 - 24 . . . Watertown, CT
Jun 10 - 11 . . . Watertown, CT	

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.



### 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-7711/7721 Certified Standards Expert (CSE)

### IPC-7711 "Rework of Electronic Assemblies"

### IPC-7721 "Repair & Modification of Printed Boards and Electronic Assemblies"

Become a subject matter expert in IPC-7711 and IPC-7721.

#### IPC-7711/7721 CSE Certification

Jan 19 - 23 ... Markham, ON	Jul 20 - 24 ... Watertown, CT
Jan 26 - 30 ... Santa Clara, CA	Aug 3 - 7 ... Markham, ON
Feb 9 - 13 ... Salem, NH	Aug 10 - 14 ... Salem, NH
Mar 2 - 6 ... Watertown, CT	Aug 24 - 28 ... Santa Clara, CA
Mar 9 - 13 ... Markham, ON	Aug 24 - 28 ... Shoreview, MN
Mar 23 - 26 ... Palm Bay, FL	Oct 5 - 9 ... Watertown, CT
Mar 23 - 27 ... Shoreview, MN	Oct 19 - 23 ... Santa Clara, CA
Apr 6 - 10 ... Salem, NH	Oct 19 - 23 ... Markham, ON
Apr 6 - 10 ... Santa Clara, CA	Oct 26 - 30 ... Salem, NH
Apr 20 - 24 ... Schaumburg, IL	Oct 26 - 30 ... Schaumburg, IL
Jun 1 - 5 ... Salem, NH	Nov 16 - 20 ... Shoreview, MN
Jun 1 - 5 ... Shoreview, MN	Nov 30 - Dec 4 Salem, NH
Jun 8 - 12 ... Markham, ON	Dec 7 - 11 ... Markham, ON
Jun 8 - 12 ... Santa Clara, CA	Dec 14 - 17 ... Palm Bay, FL
Jul 6 - 10 ... Schaumburg, IL	

#### IPC-7711/7721 CSE Recertification

Jan 19 - 20 ... Shoreview, MN	Jun 29 - 30 ... Santa Clara, CA
Jan 29 - 30 ... Salem, NH	Jul 20 - 21 ... Shoreview, MN
Feb 2 - 3 ... Palm Bay, FL	Jul 29 - 30 ... Salem, NH
Feb 12 - 13 ... Markham, ON	Jul 30 - 31 ... Schaumburg, IL
Feb 19 - 20 ... Schaumburg, IL	Sep 2 - 3 ... Salem, NH
Mar 25 - 26 ... Santa Clara, CA	Sep 10 - 11 ... Markham, ON
Mar 31 - Apr 1 Salem, NH	Oct 26 - 27 ... Shoreview, MN
Apr 13 - 14 ... Shoreview, MN	Nov 12 - 13 ... Markham, ON
May 4 - 5 ... Markham, ON	Nov 16 - 17 ... Palm Bay, FL
May 27 - 28 ... Santa Clara, CA	Nov 23 - 24 ... Salem, NH
May 28 - 29 ... Salem, NH	Nov 23 - 24 ... Santa Clara, CA
May 28 - 29 ... Schaumburg, IL	Nov 23 - 24 ... Schaumburg, IL
Jun 8 - 9 ... Palm Bay, FL	Nov 23 - 24 ... Watertown, CT
Jun 10 - 11 ... Watertown, CT	

#### 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	

#### 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	

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.



### 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-6012 Certified IPC Trainer (CIT)

### IPC-6012 "Qualification and Performance Specification for Rigid Printed Boards"

Become an expert in the design, specifications, fabrication and inspection of printed circuit boards.

#### IPC-6012 CIT Certification & Recertification

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

Mar 30 - Apr 2  
Jul 13 - 16  
Oct 26 - 29

#### 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	

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.



### 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-6012 Certified IPC Specialist (CIS)

### IPC-6012 "Qualification and Performance Specification for Rigid Printed Boards"

Learn about the design, specifications, fabrication and inspection of printed circuit boards.

#### IPC-6012 CIS Certification & Recertification

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

Mar 30 - Apr 2  
Jul 13 - 16  
Oct 26 - 29

#### 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	

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.



### 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-6012 Certified Standards Expert (CSE)

### IPC-6012 "Qualification and Performance Specification for Rigid Printed Boards"

Become a subject matter expert in IPC-A-6012.

#### IPC-6012 CSE Certification & Recertification

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

Mar 30 - Apr 2  
Jul 13 - 16  
Oct 26 - 29

#### 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	

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.



### 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 Interconnect Designer Certification (CID and CID+)

### IPC-2221 "Generic Standard on Printed Board Design"

### IPC-2222 "Sectional Standard on Rigid Organic Printed Boards"

*These courses go beyond the fundamentals of component placement and track routing to encompass a complete understanding of all the elements that go into the development of a printed circuit board.*

#### IPC CID Certification

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

#### FOR LECTURE AND EXAM ONLY\*

Jan 12 - 15  
 Feb 2 - 5  
 Mar 9 - 12  
 Apr 6 - 9  
 May 4 - 7  
 Jun 8 - 11  
 Jul 13 - 16  
 Aug 10 - 13  
 Sep 14 - 17  
 Oct 5 - 8  
 Nov 9 - 12  
 Nov 30 - Dec 3

#### IPC CID+ Certification

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

#### FOR LECTURE AND EXAM ONLY\*

Feb 9 - 12  
 Apr 21 - 24  
 Jun 22 - 25  
 Aug 17 - 20  
 Oct 19 - 22  
 Dec 7 - 10

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.



### 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

## IDEA Counterfeit Component Training

IDEA-TRN-2000 "Inspection for Visual Indicators of Counterfeit Parts"

IDEA-STD-1010 "Acceptability of Electronic Components Distributed in the Open Market"

### IDEA Counterfeit Component Workshop

IDEA-TRN-2000 Inspection for Visual Indicators of Counterfeit Parts  
*A basic introduction to Counterfeit Mitigation and to IDEA-STD-1010*

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

Mar 25  
Jul 8  
Nov 25

### IDEA Essentials

IDEA-STD-1010 "Acceptability of Electronic Components Distributed in the Open Market"

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

Mar 26 - 27  
Jul 9 - 10  
Nov 23 - 24

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.



### 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

## Hand Soldering Certification

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

Introduces the basics of soldering, terms & definitions and equipment familiarization. Wires and Terminals, and Through-Hole Soldering and Rework is taught through hands-on construction and inspection of two Through-Hole boards. Students learn the accept/reject criteria for Surface Mount Assembly and Rework first hand through the construction, inspection and rework of a surface mount board. Lead and Lead-free included.

### Hand Soldering Certification

Jan 5 - 9 . . . . . Philadelphia, PA	Jul 6 - 10 . . . . . Seattle, WA
Jan 5 - 9 . . . . . Salem, NH	Jul 13 - 17 . . . . . Pittsburgh, PA
Jan 12 - 16 . . . . . Palm Bay, FL	Jul 13 - 17 . . . . . Salem, NH
Jan 19 - 23 . . . . . Seattle, WA	Jul 13 - 17 . . . . . Santa Clara, CA
Jan 19 - 23 . . . . . Watertown, CT	Jul 13 - 17 . . . . . Schaumburg, IL
Jan 26 - 30 . . . . . Salem, NH	Jul 20 - 24 . . . . . Anaheim, CA
Jan 26 - 30 . . . . . Schaumburg, IL	Jul 20 - 24 . . . . . Portland, OR
Jan 26 - 30 . . . . . Syracuse, NY	Jul 20 - 24 . . . . . Markham, ON
Feb 2 - 6 . . . . . Buffalo, NY	Jul 27 - 31 . . . . . Palm Bay, FL
Feb 2 - 6 . . . . . Schaumburg, IL	Aug 3 - 7 . . . . . Long Island, NY
Feb 9 - 13 . . . . . Binghamton, NY	Aug 3 - 7 . . . . . Salem, NH
Feb 9 - 13 . . . . . Shoreview, MN	Aug 3 - 7 . . . . . Schaumburg, IL
Feb 9 - 13 . . . . . Santa Clara, CA	Aug 10 - 14 . . . . . Rochester, NY
Feb 16 - 20 . . . . . Salem, NH	Aug 10 - 14 . . . . . Santa Clara, CA
Feb 23 - 27 . . . . . Markham, ON	Aug 10 - 14 . . . . . Markham, ON
Mar 2 - 6 . . . . . Atlanta, GA	Aug 17 - 21 . . . . . Buffalo, NY
Mar 2 - 6 . . . . . Long Island, NY	Aug 17 - 21 . . . . . Shoreview, MN
Mar 2 - 6 . . . . . San Diego, CA	Aug 24 - 28 . . . . . Salem, NH
Mar 9 - 13 . . . . . Salem, NH	Aug 31 - Sep 4 . . . . . Anaheim, CA
Mar 9 - 13 . . . . . Schaumburg, IL	Aug 31 - Sep 4 . . . . . Atlanta, GA
Mar 9 - 13 . . . . . Seattle, WA	Sep 14 - 18 . . . . . Salem, NH
Mar 16 - 20 . . . . . Markham, ON	Sep 14 - 18 . . . . . Schaumburg, IL
Mar 16 - 20 . . . . . Rochester, NY	Sep 14 - 18 . . . . . Seattle, WA
Mar 16 - 20 . . . . . Santa Clara, CA	Sep 21 - 25 . . . . . Philadelphia, PA
Mar 16 - 20 . . . . . Watertown, CT	Sep 21 - 25 . . . . . San Diego, CA
Mar 23 - 27 . . . . . Anaheim, CA	Sep 21 - 25 . . . . . Santa Clara, CA
Mar 23 - 27 . . . . . Portland, OR	Sep 21 - 25 . . . . . Markham, ON
Mar 30 - Apr 3 . . . . . Palm Bay, FL	Sep 21 - 25 . . . . . Watertown, CT
Mar 30 - Apr 3 . . . . . Salem, NH	Sep 28 - Oct 2 . . . . . Kansas City, MO
Apr 6 - 10 . . . . . Schaumburg, IL	Sep 28 - Oct 2 . . . . . Ottawa, ON
Apr 20 - 24 . . . . . Kansas City, MO	Oct 5 - 9 . . . . . Salem, NH
Apr 20 - 24 . . . . . Salem, NH	Oct 5 - 9 . . . . . Santa Clara, CA
Apr 20 - 24 . . . . . Shoreview, MN	Oct 5 - 9 . . . . . Shoreview, MN
Apr 27 - May 1 . . . . . Pittsburgh, PA	Oct 12 - 16 . . . . . Palm Bay, FL
Apr 27 - May 1 . . . . . Santa Clara, CA	Oct 12 - 16 . . . . . Syracuse, NY
May 4 - 8 . . . . . Ottawa, ON	Oct 19 - 23 . . . . . Pittsburgh, PA
May 4 - 8 . . . . . Watertown, CT	Oct 26 - 30 . . . . . Binghamton, NY
May 11 - 15 . . . . . Buffalo, NY	Oct 26 - 30 . . . . . Salem, NH
May 11 - 15 . . . . . Markham, ON	Nov 2 - 6 . . . . . Seattle, WA
May 11 - 15 . . . . . Philadelphia, PA	Nov 2 - 6 . . . . . Markham, ON
May 11 - 15 . . . . . Salem, NH	Nov 9 - 13 . . . . . Buffalo, NY
May 11 - 15 . . . . . Seattle, WA	Nov 9 - 13 . . . . . Schaumburg, IL
May 18 - 22 . . . . . San Diego, CA	Nov 9 - 13 . . . . . Watertown, CT
May 18 - 22 . . . . . Schaumburg, IL	Nov 16 - 20 . . . . . Salem, NH
May 18 - 22 . . . . . Syracuse, NY	Nov 16 - 20 . . . . . Santa Clara, CA
Jun 1 - 5 . . . . . Atlanta, GA	Nov 30 - Dec 4 . . . . . San Diego, CA
Jun 1 - 5 . . . . . Binghamton, NY	Dec 7 - 11 . . . . . Rochester, NY
Jun 1 - 5 . . . . . Salem, NH	Dec 7 - 11 . . . . . Salem, NH
Jun 1 - 5 . . . . . Santa Clara, CA	Dec 7 - 11 . . . . . Santa Clara, CA
Jun 1 - 5 . . . . . Markham, ON	Dec 7 - 11 . . . . . Shoreview, MN
Jun 8 - 12 . . . . . Schaumburg, IL	Dec 14 - 18 . . . . . Anaheim, CA
Jun 15 - 19 . . . . . Shoreview, MN	Dec 14 - 18 . . . . . Portland, OR
Jun 22 - 26 . . . . . Salem, NH	
Jul 6 - 10 . . . . . San Diego, CA	

### Hand Soldering Recertification

Jan 5 . . . . . San Diego, CA	Jun 16 . . . . . Salem, NH
Jan 19 . . . . . Schaumburg, IL	Jun 29 . . . . . Schaumburg, IL
Jan 30 . . . . . Kansas City, MO	Jun 29 . . . . . Markham, ON
Feb 13 . . . . . Rochester, NY	Jul 1 . . . . . Salem, NH
Feb 16 . . . . . Seattle, WA	Jul 22 . . . . . Shoreview, MN
Feb 27 . . . . . Salem, NH	Jul 24 . . . . . Rochester, NY
Mar 9 . . . . . San Diego, CA	Aug 5 . . . . . Salem, NH
Mar 25 . . . . . Watertown, CT	Sep 9 . . . . . Santa Clara, CA
Mar 27 . . . . . Santa Clara, CA	Sep 9 . . . . . Shoreview, MN
Apr 1 . . . . . Shoreview, MN	Sep 30 . . . . . Markham, ON
Apr 3 . . . . . Schaumburg, IL	Sep 30 . . . . . Watertown, CT
Apr 27 . . . . . Anaheim, CA	Oct 9 . . . . . Salem, NH
Apr 29 . . . . . Salem, NH	Oct 9 . . . . . San Diego, CA
May 20 . . . . . Markham, ON	Oct 16 . . . . . Schaumburg, IL
May 26 . . . . . Santa Clara, CA	Oct 23 . . . . . Seattle, WA
Jun 12 . . . . . San Diego, CA	Nov 24 . . . . . Salem, NH
Jun 12 . . . . . Watertown, CT	Dec 11 . . . . . Kansas City, MO

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.



### 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

### HARNESST 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

## Advanced Surface Mount Micro Hand Soldering

### J-STD-001 / IPC-A-610 / IPC-7711

*Learn proper techniques for placement, soldering and rework of fine pitch and multi-leaded extra fine pitch surface mount components*

### Advanced SMT Micro Hand Soldering Certification

Mar 30 - 31 ... Santa Clara, CA	Aug 31 - Sep 1 Salem, NH
Apr 2 - 3 ... Salem, NH	Sep 10 - 11 ... Santa Clara, CA
Apr 15 - 16 ... Shoreview, MN	Oct 12 - 13 ... Schaumburg, IL
May 26 - 27 ... Schaumburg, IL	Dec 14 - 15 ... Shoreview, MN
Jun 17 - 18 ... Salem, 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.



### 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

## PCB Fundamentals Training

IPC-A-610 "The Acceptability of Electronic Assemblies"

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

### Crimp Terminations Certification & Recertification

Jan 26 . . . . . Salem, NH

Aug 14 . . . . . Salem, NH

Dec 23 . . . . . Salem, NH

### Electrostatic Discharge (ESD) Training

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

Jan 30

Apr 10

Aug 14

Oct 30

### Component ID Training

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

Apr 3

Jul 17

Oct 2

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.