



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.

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 hree classes of assembly production.

IPC-A-610 CIT Certification

| PC-A-610 CII Ce | rtiticati | on | |
|--------------------------|-----------|--------------|--------------------|
| Jan 6 - 9 Buffalo, N | Υ | Jul 14 - 17 | Seattle, WA |
| Jan 6 - 9 Watertow | | Jul 21 - 24 | Palm Bay, FL |
| Jan 6 - 9 San Jose, | CA | Jul 21 - 24 | Schaumburg, IL |
| Jan 13 - 16 San Diego | , CA | Jul 28 - 31 | |
| Jan 13 - 16 Schaumbi | irg, IL | Aug 4 - 7 | San Jose, CA |
| Jan 13 - 16 Toronto, C | | | Minneapolis, MN |
| Jan 14 - 17 Seattle, W | Ά | | Manchester, NH |
| Jan 20 - 23 Pittsburgh | | Aug 25 - 28 | |
| Jan 27 - 30 Palm Bay, | FL | Sep 8 - 11 | Portland, OR |
| Feb 3 - 6 Kansas Cir | ty, MO | Sep 8 - 11 | |
| Feb 3 - 6 Portland, | | Sep 15 - 18 | |
| Feb 3 - 6 Manchest | er, NH | Sep 15 - 18 | |
| Feb 10 - 13 San Jose, | CA | Sep 15 - 18 | San Diego, CA |
| Feb 17 - 20 Anaheim, | CA | Sep 22 - 25 | Watertown, CT |
| Feb 18 - 21 Minneapo | lis, MN | | Schaumburg, IL |
| Feb 18 - 21 Rochester, | NY | Sep 22 - 25 | Seattle, WA |
| Mar 3 - 6 Seattle, W | Ά | Oct 6 - 9 | Palm Bay, FL |
| Mar 11 - 14 San Diego | , CA | Oct 13 - 16 | Minneapolis, MN |
| Mar 17 - 20 Watertow | n, CT | Oct 13 - 16 | Buffalo, NY |
| Mar 17 - 20 Schaumbi | ırg, IL | Oct 20 - 23 | Long Island, NY |
| Mar 24 - 27 Long Islan | d, NY | Oct 20 - 23 | Manchester, NH |
| Mar 24 - 27 Toronto, C | N | Oct 27 - 30 | San Jose, CA |
| Mar 31 - Apr 3 Ottawa, C | N | Oct 27 - 30 | Kansas City, MO |
| Mar 31 - Apr 3 Portland, | OR | Nov 10 - 13 | Akron, OH |
| Apr 7 - 10 Minneapo | lis, MN | Nov 10 - 13 | Portland, OR |
| Apr 7 - 10 Manchest | er, NH | Nov 10 - 13 | Anaheim, CA |
| Apr 14 - 17 Anaheim, | CA | Nov 10 - 13 | Watertown, CT |
| Apr 21 - 23 Palm Bay, | FL | Nov 11 - 14 | Toronto, ON |
| Apr 21 - 24 San Jose, | CA | Nov 17 - 20 | Seattle, WA |
| May 5 - 8 Schaumbi | ırg, IL | Nov 17 - 20 | Schaumburg, IL |
| May 5 - 8 Rochester, | NY | Nov 17 - 20 | San Diego, CA |
| May 5 - 8 Seattle, W | Ά | Nov 17 - 20 | Ottawa, ON |
| May 5 - 8 Watertow | n, CT | Dec 1 - 4 | Pittsburgh, PA |
| May 12 - 15 San Diego | , CA | Dec 1 - 4 | Binghamton, NY |
| May 19 - 22 San Jose, | CA | Dec 1 - 4 | San Jose, CA |
| May 26 - 29 Toronto, C | N | Dec 1 - 4 | Minneapolis, MN |
| May 27 - 30 Buffalo, N | Υ | Dec 8 - 11 | Manchester, NH |
| Jun 2 - 5 Portland, | | SALLINE - | |
| Jun 2 - 5 Manchest | | JIN-LINE Sta | art time: 10am E.S |
| Jun 9 - 12 Minneapo | lis, MN | lan 6 - 9 | Jul 1/1 - 17 |
| | | | |

| Jan 6 - 9 | Jul 14 - 17 |
|----------------|-------------|
| Jan 27 - 30 | Aug 4 - 7 |
| Feb 17 - 20 | Aug 25 - 28 |
| Mar 10 - 13 | Sep 15 - 18 |
| Mar 31 - Apr 3 | Oct 6 - 9 |
| Apr 21 - 24 | Oct 27 - 30 |
| May 12 - 15 | Nov 17 - 20 |
| Jun 2 - 5 | Dec 8 - 11 |
| Jun 23 - 26 | |

Challenge Test

Jun 9 - 12 Long Island, NY

Jun 9 - 12 Pittsburgh, PA

Jun 16 - 19 . . . San Jose, CA

Jun 16 - 19 . . . Kansas City, MO

Jun 16 - 19 . . . Binghamton, NY Jun 23 - 26 . . . Anaheim, CA

Jul 7 - 10 Akron, OH Jul 14 - 17 Watertown, CT

Jul 14 - 17 San Diego, CA

IN-PERSON Manchester, NH **ON-LINE** Start time: 10am E.S.T.

| IT I LILD | I vianchester, ivi i | OIT LII | Juli Juli | ie. Todili L.J. | |
|---|--|---|---|---|--|
| Jan 3 Jan 28 Feb 7 Feb 26 Apr 11 May 2 | Jun 19 Aug 7 Sep 26 Oct 30 Nov 21 Dec 22 | Jan 8 Jan 22 Feb 5 Feb 19 Mar 5 Mar 19 | May 14 May 28 Jun 11 Jun 25 Jul 9 Jul 23 | Sep 17 Oct 1 Oct 15 Oct 29 Nov 12 Nov 24 | |
| Jun 6 | Dec 22 | Apr 2 Apr 16 Apr 30 | Aug 6 Aug 20 Sep 3 | Dec 10 Dec 22 | |

IPC-A-610 CIT Recertification

| C-A-0 10 CIT Necel till | cation | |
|--|---|---|
| Jan 6 - 7 Toronto, ON Jan 6 - 7 San Diego, CA Jan 6 - 7 Palm Bay, FL Jan 13 - 14 Watertown, CT Jan 14 - 15 Kansas City, MO Jan 20 - 21 Schaumburg, IL Jan 20 - 21 Anaheim, CA Jan 27 - 28 Long Island, NY Feb 3 - 4 San Jose, CA Feb 17 - 18 Seattle, WA Feb 18 - 19 Akron, OH Feb 24 - 25 Minneapolis, MN Mar 3 - 4 Rochester, NY Mar 10 - 11 Palm Bay, FL Mar 10 - 11 Manchester, NH Mar 25 - 26 Ottawa, ON Apr 14 - 15 Seattle, WA Apr 14 - 15 Seattle, WA Apr 14 - 15 San Jose, CA Apr 21 - 22 Watertown, CT Apr 28 - 29 Watertown, CT Apr 28 - 29 Toronto, ON Apr 29 - 30 Anaheim, CA | Jul 28 - 29 Aug 11 - 12 Aug 12 - 13 Aug 18 - 19 Aug 25 - 26 Aug 25 - 26 Sep 2 - 3 Sep 8 - 9 Oct 6 - 7 Oct 13 - 14 Oct 20 - 21 Oct 20 - 21 Oct 27 - 28 Nov 3 - 4 Nov 10 - 11 Nov 17 - 18 | Watertown, CT Portland, OR Minneapolis, MN Buffalo, NY Schaumburg, IL Kansas City, MO Palm Bay, FL Binghamton, NY Manchester, NH Toronto, ON Manchester, NH San Diego, CA San Jose, CA Seattle, WA Minneapolis, MN Rochester, NY Anaheim, CA Schaumburg, IL Watertown, CT Manchester, NH |
| May 5 - 6 Manchester, NH May 5 - 6 Binghamton, NY May 12 - 13 Minneapolis, MN Jun 9 - 10 San Diego, CA Jun 16 - 17 Seattle, WA Jun 23 - 24 Long Island, NY Jul 7 - 8 Manchester, NH Jul 14 - 15 Toronto, ON Jul 21 - 22 Rochester, NY | Jan 2 - 3 Jan 20 - 21 Feb 10 - 11 Mar 3 - 4 Mar 24 - 25 Apr 14 - 15 May 5 - 6 May 29 - 30 Jun 16 - 17 | Jul 7 - 8 Jul 21 - 22 Aug 4 - 5 Aug 25 - 26 Sep 15 - 16 Oct 13 - 14 Nov 3 - 4 Dec 15 - 16 |

Challenge Test

IN-PERSON Manchester, NH ON-LINE Start time: 10am E.S.T.

| Jan 3 Jan 28 Feb 7 Feb 26 Apr 11 May 2 Jun 6 | Jun 19 Aug 7 Sep 26 Oct 30 Nov 21 Dec 22 | Jan 8 Jan 22 Feb 5 Feb 19 Mar 5 Mar 19 Apr 2 Apr 16 | May 14 May 28 Jun 11 Jun 25 Jul 9 Jul 23 Aug 6 Aug 20 | Sep 17 Oct 1 Oct 15 Oct 29 Nov 12 Nov 24 Dec 10 Dec 22 |
|--|---|--|--|---|
| | | Apr 16 | Aug 20 | Dec 22 |
| | | Apr 30 | Sep 3 | |

ALSO AVAILABLE

IPC-A-610 Interactive PCB Inspection Lab IPC-A-610 "The Acceptability of Electronic Assemblies" Utilizes, lectures, visual acuity exercises, and physical assemblies to provide an experience in visually inspecting printed circuit assemblies.





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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

| PC-A-610 | CIS Certification | on & Recertification |
|----------------------------|-------------------|---|
| Jan 6 - 9 Jan 6 - 9 | Watertown, CT | May 5 - 8 Manchester, NH May 12 - 15 San Diego, CA |
| Jan 13 - 16 | | May 19 - 22 San Jose, CA |
| Jan 13 - 16 Jan 13 - 16 | | |
| | | May 26 - 29 Toronto, ON May 27 - 30 Buffalo, NY |
| Jan 13 - 16 Jan 13 - 16 | Schaumburg, IL | Jun 2 - 5 Portland, OR |
| Jan 14 - 17 | | Jun 3 - 6 Halifax NS |
| Jan 20 - 23 | | Jun 9 - 12 Minneapolis, MN |
| | Manchester, NH | Jun 9 - 12 Long Island, NY |
| Jan 27 - 30 | | Jun 9 - 12 Pittsburgh, PA |
| | Kansas City, MO | Jun 16 - 19 Kansas City, MO |
| Feb 3 - 6 | | Jun 16 - 19 San Jose, CA |
| Feb 10 - 13 | | Jun 16 - 19 Binghamton, NY |
| | Manchester, NH | Jun 16 - 19 Manchester, NH |
| Feb 17 - 20 | | Jun 23 - 26 Anaheim, CA |
| | Minneapolis, MN | Jul 7 - 10 Akron, OH |
| Feb 18 - 21 | | Jul 7 - 10 Manchester, NH |
| Mar 3 - 6 | | Jul 14 - 17 Watertown, CT |
| | Manchester, NH | Jul 14 - 17 San Diego, CA |
| Mar 10 - 13 | | Jul 14 - 17 Seattle, WA |
| Mar 11 - 14 | | Jul 21 - 24 Palm Bay, FL |
| | Watertown, CT | Jul 21 - 24 Schaumburg, IL |
| | Schaumburg, IL | Jul 28 - 31 Atlanta, GA |
| | Philadelphia, PA | Jul 28 - 31 Toronto, ON |
| Mar 24 - 27 | Long Island, NY | Jul 28 - 31 Manchester, NH |
| Mar 24 - 276 | Toronto, ON | Jul 28 - 31 Philadelphia, PA |
| | Manchester, NH | Aug 4 - 7 San Jose, CA |
| Mar 31 - Apr 3 | Ottawa, ON | Aug 4 - 76 Minneapolis, MN |
| Mar 31 - Apr 3 | Portland, OR | Aug 5 - 8 Syracuse, NY |
| Apr 7 - 10 | Atlanta, GA | Aug 18 - 21 Manchester, NH |
| Apr 7 - 10 | Syracuse, NY | Aug 25 - 28 Anaheim, CA |
| Apr 7 - 10 | Minneapolis, MN | Sep 8 - 11 Portland, OR |
| Apr 14 - 17 | Anaheim, CA | Sep 8 - 11 San Jose, CA |
| | Manchester, NH | Sep 8 - 11 Manchester, NH |
| Apr 21 - 24 | | Sep 15 - 18 Rochester, NY |
| Apr 21 - 24 | | Sep 15 - 18 Toronto, ON |
| | Schaumburg, IL | Sep 15 - 18 San Diego, CA |
| May 5 - 8 | | Sep 22 - 25 Watertown, CT |
| May 5 - 8 | | Sep 22 - 25 Schaumburg, IL |
| May 5 - 8 | Watertown, CT | Sep 22 - 25 Seattle, WA |
| | | |

| Oct 6 - 9 Atlanta, GA |
|------------------------------|
| Oct 13 - 16 Minneapolis, MN |
| Oct 13 - 16 Buffalo, NY |
| Oct 13 - 16 Manchester, NH |
| Oct 20 - 23 Long Island, NY |
| Oct 27 - 30 San Jose, CA |
| Oct 27 - 30 Kansas City, MO |
| Nov 3 - 6 Manchester, NH |
| Nov 10 - 13 Akron, OH |
| Nov 10 - 13 Portland, OR |
| Nov 10 - 13 Anaheim, CA |
| Nov 10 - 13 Watertown, CT |
| Nov 11 - 14 Toronto, ON |
| Nov 17 - 20 Seattle, WA |
| Nov 17 - 20 Schaumburg, IL |
| Nov 17 - 20 San Diego, CA |
| Nov 17 - 20 Ottawa, ON |
| Nov 17 - 20 Manchester, NH |
| Nov 17 - 20 Philadelphia, PA |
| Dec 1 - 4 Pittsburgh, PA |
| Dec 1 - 4 Binghamton, NY |
| Dec 1 - 4 San Jose, CA |
| Dec 1 - 4 Minneapolis, MN |
| Dec 15 - 18 Manchester, NH |
| |

Oct 6 - 9 Palm Bay, FL

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

| Jan 6 - 8 | Jul 14 - 16 |
|----------------|-------------|
| Jan 27 - 29 | Aug 4 - 6 |
| Feb 17 - 19 | Aug 25 - 27 |
| Mar 10 - 12 | Sep 15 - 17 |
| Mar 31 - Apr 2 | Oct 6 - 8 |
| Apr 21 - 23 | Oct 27 - 29 |
| May 12 - 14 | Nov 17 - 19 |
| Jun 2 - 4 | Dec 8 - 10 |
| Jun 23 - 25 | |

Challenge Test

IN-PERSON Manchester, NH

| Jan 3 | Jun 19 |
|--------|--------|
| Jan 28 | Aug 7 |
| Feb 7 | Sep 26 |
| Feb 26 | Oct 30 |
| Apr 11 | Nov 21 |
| May 2 | Dec 22 |
| Jun 6 | |
| | |

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

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





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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

| PC-A-610 | CSE Certification | ation | |
|----------------|-------------------|--------------------------|----------------------|
| Jan 6 - 9 | . Buffalo. NY | Jul 14 - 17 | Seattle WA |
| | . Watertown, CT | Jul 21 - 24 | |
| | . San Jose, CA | Jul 21 - 24 | |
| | . San Diego, CA | Jul 28 - 31 | |
| | . Schaumburg, IL | Aug 4 - 7 | |
| | . Toronto, ON | | Minneapolis, MN |
| Jan 14 - 17 | | Aug 11 - 14 | |
| | . Pittsburgh, PA | Aug 25 - 28 | |
| Jan 27 - 30 | | Sep 8 - 11 | |
| | . Kansas City, MO | Sep 8 - 11 | |
| | . Portland, OR | Sep 15 - 18 | |
| | . Manchester, NH | Sep 15 - 18 ¹ | |
| Feb 10 - 13 | . San Jose, CA | Sep 15 - 18 | |
| Feb 17 - 20 | . Anaheim, CA | Sep 22 - 25 ¹ | |
| Feb 18 - 21 | . Minneapolis, MN | Sep 22 - 25 : | Schaumburg, IL |
| Feb 18 - 21 | . Rochester, NY | Sep 22 - 25 ! | |
| Mar 3 - 6 | . Seattle, WA | Oct 6 - 9 | Palm Bay, FL |
| Mar 11 - 14 | . San Diego, CA | | Minneapolis, MN |
| Mar 17 - 20 | . Watertown, CT | Oct 13 - 16 | Buffalo, NY |
| Mar 17 - 20 | . Schaumburg, IL | Oct 20 - 23 | Long Island, NY |
| | . Long Island, NY | Oct 20 - 23 | Manchester, NH |
| Mar 24 - 27 | . Toronto, ON | Oct 27 - 30 ! | San Jose, CA |
| Mar 31 - Apr 3 | 3 Ottawa, ON | Oct 27 - 30 | |
| Mar 31 - Apr 3 | 3 Portland, OR | Nov 10 - 13 | |
| | . Minneapolis, MN | Nov 10 - 13 | |
| Apr 7 - 10 | . Manchester, NH | Nov 10 - 13 | Anaheim, CA |
| | . Anaheim, CA | Nov 10 - 13 | |
| | . Palm Bay, FL | Nov 11 - 14 | |
| | . San Jose, CA | Nov 17 - 20 | |
| | . Schaumburg, IL | Nov 17 - 20 | |
| | . Rochester, NY | Nov 17 - 20 | |
| May 5 - 8 | | Nov 17 - 20 | |
| | . Watertown, CT | Dec 1 - 4 | |
| | . San Diego, CA | | Binghamton, NY |
| | . San Jose, CA | Dec 1 - 4 | |
| | . Toronto, ON | | Minneapolis, MN |
| , | . Buffalo, NY | Dec 8 - 11 | Manchester, NH |
| | . Portland, OR | ON-I INF Sta | rt time: 10am E.S.T. |
| | . Manchester, NH | | |
| | . Minneapolis, MN | Jan 6 - 9 | Jul 14 - 17 |
| | . Long Island, NY | Jan 27 - 30 | Aug 4 - 7 |
| | . Pittsburgh, PA | Feb 17 - 20 | Aug 25 - 28 |
| | . Kansas City, MO | Mar 10 - 13 | Sep 15 - 18 |
| | . San Jose, CA | Mar 31 - Apr 3 | Oct 6 - 9 |
| | . Binghamton, NY | Apr 21 - 24 | Oct 27 - 30 |
| Jun 23 - 26 | . Anaheim, CA | May 12 - 15 | Nov 17 - 20 |
| | | | |

Challenge Test

| I | N-P | ERS | ON | Manchester, | Ν |
|---|-----|-----|----|-------------|---|
|---|-----|-----|----|-------------|---|

Jul 14 - 17 Watertown, CT

Jul 14 - 17 San Diego, CA

Jul 7 - 10 Akron, OH

| Jan 3 | Jun 19 | Jan 8 | May 14 |
|--------|--------|--------|--------|
| Jan 28 | Aug 7 | Jan 22 | May 28 |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 |
| May 2 | Dec 22 | Mar 19 | Jul 23 |
| Jun 6 | | Apr 2 | Aug 6 |
| | | Apr 16 | Aug 20 |
| | | Apr 30 | Sep 3 |

IPC-A-610 CSE Recertification

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

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| IIN-PERS | DIN Manchester, NH | OIA-LII | ME Start tim | ne: 10am E.S.I. |
|----------|---------------------------|---------|--------------|-----------------|
| Jan 3 | Jun 19 | Jan 8 | May 14 | Sep 17 |
| Jan 28 | Aug 7 | Jan 22 | May 28 | Oct 1 |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 | Oct 15 |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 | Oct 29 |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 | Nov 12 |
| May 2 | Dec 22 | Mar 19 | Jul 23 | Nov 24 |
| Jun 6 | | Apr 2 | Aug 6 | Dec 10 |
| | | Apr 16 | Aug 20 | Dec 22 |
| | | Apr 30 | Sep 3 | |
| | | | | |

ALSO AVAILABLE

Dec 8 - 11

Sep 17

Oct 1

Oct 15

Oct 29

Nov 12

Nov 24

Dec 10

Dec 22

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

Jun 2 - 5

Jun 23 - 26

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IPC-A-610 Interactive Inspection Lab

| r C-A-0 10 | interactive in | spection | Lab |
|------------|-------------------|----------|-------------------|
| Jan 10 | . Buffalo, NY | Jul 18 | . San Diego, CA |
| Jan 10 | . San Jose, CA | Jul 25 | . Schaumburg, IL |
| Jan 10 | . Watertown, CT | Aug 1 | . Manchester, NH |
| Jan 17 | . San Diego, CA | Aug 1 | . Toronto, ON |
| Jan 17 | . Toronto, ON | Aug 8 | . San Jose, CA |
| Jan 17 | . Schaumburg, IL | Aug 8 | . Minneapolis, MN |
| Jan 24 | . Manchester, NH | Aug 22 | . Manchester, NH |
| Feb 7 | . Kansas City, MO | Aug 29 | . Anaheim, CA |
| Feb 7 | . Portland, OR | Sep 12 | . Manchester, NH |
| | . Manchester, NH | Sep 12 | . Portland, OR |
| Feb 14 | . San Jose, CA | Sep 12 | . San Jose, CA |
| Feb 21 | . Anaheim, CA | Sep 19 | . Rochester, NY |
| Mar 7 | . Seattle, WA | Sep 19 | . Toronto, ON |
| | . Watertown, CT | Sep 19 | . San Diego, CA |
| Mar 21 | . Schaumburg, IL | Sep 26 | . Schaumburg, IL |
| Mar 28 | . Manchester, NH | Sep 26 | . Seattle, WA |
| Mar 28 | . Toronto, ON | Sep 26 | . Watertown, CT |
| | . Long Island, NY | Oct 10 | . Palm Bay, FL |
| Apr 4 | | Oct 17 | . Manchester, NH |
| Apr 4 | . Portland, OR | Oct 17 | . Buffalo, NY |
| Apr 11 | . Minneapolis, MN | Oct 17 | . Minneapolis, MN |
| Apr 18 | . Manchester, NH | Oct 24 | . Manchester, NH |
| Apr 18 | . Anaheim, CA | | . Long Island, NY |
| Apr 25 | | Oct 31 | . San Jose, CA |
| | . Manchester, NH | | . Kansas City, MO |
| May 9 | | | . Manchester, NH |
| | . Rochester, NY | | . Anaheim, CA |
| | . Schaumburg, IL | Nov 14 | |
| | . San Diego, CA | Nov 14 | , |
| May 23 | | | . Watertown, CT |
| May 30 | | | . San Diego, CA |
| Jun 6 | | Nov 21 | |
| | . Minneapolis, MN | Nov 21 | |
| | . Pittsburgh, PA | | . Schaumburg, IL |
| | . Manchester, NH | | . Pittsburgh, PA |
| Jun 20 | | Dec 5 | |
| | . Kansas City, MO | | . Minneapolis, MN |
| Jun 20 | | | . Manchester, NH |
| Jun 27 | | Dec 19 | . Manchester, NH |
| | . Manchester, NH | | |
| | . Watertown, CT | | |
| Jul 18 | . Seattle, WA | | |





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■ 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

| 1-31D-001 CIT Certifica | tion |
|-------------------------------|--|
| Jan 6 - 10 Portland, OR | Jul 14 - 18 Kansas City, MO |
| Jan 13 - 17 Buffalo, NY | Jul 28 - Aug 1 Buffalo, NY |
| Jan 13 - 17 Minneapolis, MN | Jul 28 - Aug 1 Anaheim, CA |
| Jan 20 - 24 Manchester, NH | Aug 4 - 8 Ottawa, ON |
| Jan 20 - 24 Rochester, NY | Aug 11 - 15 Palm Bay, FL |
| Jan 27 - 31 San Jose, CA | Aug 11 - 15 San Diego, CA |
| Jan 27 - 31 Toronto, ON | Aug 18 - 22 San Jose, CA |
| Jan 27 - 31 Anaheim, CA | Aug 18 - 22 Seattle, WA |
| Feb 3 - 7 Schaumburg, IL | Aug 18 - 22 Watertown, CT |
| Feb 3 - 7 Watertown, CT | Aug 25 - 29 Toronto, ON |
| Feb 10 - 14 Palm Bay, FL | Aug 25 - 29 Rochester, NY |
| Feb 24 - 28 San Diego, CA | Aug 25 - 29 Pittsburgh, PA |
| Feb 24 - 28 Seattle, WA | Sep 8 - 12 Manchester, NH |
| Mar 3 - 7 Pittsburgh, PA | Sep 8 - 12 Schaumburg, IL |
| Mar 3 - 7 San Jose, CA | Sep 22 - 26 Minneapolis, MN |
| Mar 10 - 14 Kansas City, MO | Sep 29 - Oct 3 San Jose, CA |
| Mar 10 - 14 Ottawa, ON | Sep 29 - Oct 3 Portland, OR |
| Mar 17 - 21 Manchester, NH | Oct 6 - 10 Toronto, ON |
| Mar 17 - 21 Minneapolis, MN | Oct 6 - 10 Binghamton, NY |
| Mar 17 - 21 Seattle, WA | Oct 13 - 17 Seattle, WA |
| Mar 31 - Apr 4 Anaheim, CA | Oct 20 - 24 Anaheim, CA |
| Mar 31 - Apr 4 Buffalo, NY | Oct 27 - 31 Watertown, CT |
| Apr 7 - 11 Seattle, WA | Nov 3 - 7 Manchester, NH |
| Apr 7 - 11 Toronto, ON | Nov 3 - 7 San Jose, CA |
| Apr 7 - 11 Watertown, CT | Nov 10 - 14 Palm Bay, FL |
| Apr 21 - 25 Rochester, NY | Nov 10 - 14 San Diego, CA |
| Apr 28 - May 2 Binghamton, NY | Nov 10 - 14 Minneapolis, MN |
| Apr 28 - May 2 Portland, OR | Nov 17 - 21 Buffalo, NY |
| May 5 - 9 Anaheim, CA | Nov 24 - 28 Ottawa, ON |
| May 5 - 9 San Jose, CA | Dec 1 - 5 Seattle, WA |
| May 5 - 9 Long Island, NY | Dec 8 - 12 Watertown, CT |
| May 5 - 9 Minneapolis, MN | Dec 15 - 19 Toronto, ON |
| May 12 - 16 Schaumburg, IL | Dec 15 - 19 Schaumburg, IL |
| May 19 - 23 Manchester, NH | Dec 15 - 19 Long Island, NY |
| May 19 - 23 Palm Bay, FL | Dec 15 - 19 Kansas City, MO |
| Jun 2 - 6 San Diego, CA | ON LINE |
| Jun 16 - 20 Watertown, CT | ON-LINE Start time: 10am E.S.T. |
| Jun 16 - 20 San Jose , CA | FOR LECTURE AND EXAM ONLY* |
| Jun 23 - 27 Seattle, WA | Feb 19 - 22 Oct 21 - 24 |

| Feb 19 - 22 | Oct 21 - 24 |
|-------------|-------------|
| Jun 3 - 6 | |

Challenge Test IN-PERSON Manchester, NH

Jun 23 - 27 Toronto, ON

Jul 7 - 11..... Minneapolis, MN

Jul 14 - 18. Manchester, NH

| Jan 3 | Feb 7 | Apr 11 | Jun 6 | Aug 7 | Oct 30 | Dec 22 |
|--------|--------|--------|--------|--------|--------|--------|
| Jan 28 | Feb 26 | May 2 | Jun 19 | Sep 26 | Nov 21 | |

*Important Note: J-STD-001 ON-LINE CLASS DATES ARE FOR THE LECTURE AND EXAM ONLY. Attendees will need to travel to a confirmed, in-person J-STD-001 class to complete their workmanship requirements with an EPTAC Instructor.

J-STD-001 CIT Recertification

| Jan 8 - 9 Toronto, ON Jan 8 - 9 Palm Bay, FL Jan 8 - 9 San Diego, CA Jan 8 - 9 Manchester, NH Jan 15 - 16 Watertown, CT Jan 16 - 17 Kansas City, MO Jan 22 - 23 Anaheim, CA Jan 29 - 30 Long Island, NY Feb 5 - 6 San Jose, CA Feb 19 - 20 Seattle, WA Feb 26 - 27 Minneapolis, MN Mar 5 - 6 Rochester, NY Mar 12 - 13 Portland, OR Jul 30 - 31 Vatertown, CT Aug 13 - 14 Minneapolis, MN Aug 14 - 15 Buffalo, NY Aug 20 - 21 Schaumburg, IL Aug 27 - 28 Falm Bay, FL Oct 8 - 9 San Diego, CA Mar 12 - 13 Manchester, NH Mar 12 - 13 Manchester, NH Mar 16 - 17 Schaumburg, IL Apr 16 - 17 Schaumburg, IL Apr 16 - 17 San Jose, CA Apr 23 - 24 Watertown, CT Apr 30 - May 1 Toronto, ON Apr 30 - May 1 Toronto, ON Apr 30 - May 1 Toronto, ON Apr 30 - May 1 Buffalo, NY May 1 - 2 Anaheim, CA May 7 - 8 Manchester, NH May 1 - 2 Anaheim, CA May 7 - 8 Manchester, NH May 7 - 8 Manchester, NH May 7 - 8 Binghamton, Ny May 14 - 15 Minneapolis, MN Jul 19 - 10 Manchester, NH Jul 16 - 17 Toronto, ON Challenge Control of Nanchester, NH Jul 16 - 17 Toronto, ON DN-LINE Start time: 10am E.S.T. Feb 12 - 13 Aug 6 - 7 Apr 16 - 17 Oct 15 - 16 Jun 18 - 19 Seattle, WA Jun 25 - 26 Long Island, NY Jul 9 - 10 Manchester, NH Jul 16 - 17 Toronto, ON |
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Challenge Test IN-PERSON Manchester, NH

| Jan 3 | Feb 7 | Apr 11 | Jun 6 | Aug 7 | Oct 30 | Dec 22 |
|-------|-------|--------|-------|--------|--------|--------|
| | | | | Sen 26 | | |

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

Aug 1 Watertown, CT

| certification a neces | cilicacio | •• | |
|--|--|---|---|
| Jan 10 Toronto, ON Jan 10 Palm Bay, FL Jan 10 Manchester, NH Jan 17 Watertown, CT Feb 7 San Jose, CA Feb 28 Minneapolis, MN Mar 7 Manchester, NH Mar 7 Rochester, NY Apr 18 Manchester, NH Apr 18 Seattle, WA Apr 18 San Jose, CA Apr 18 Schaumburg, IL Apr 25 Watertown, CT | Aug 22 Sep 12 Sep 29 Oct 17 Oct 24 Ort 31 Nov 7 Nov 14 Nov 21 Dec 22 | Minnea Schaur Toronto Manch San Jos Minnea Anahei Watert Schaur Manch Toronto Manch | nburg, IL o, ON ester, NH se, CA apolis, MN m, CA own, CT nburg, IL ester, NH o, ON ester, NH |
| May 2 Toronto, ON | ON-LINE | Start time: | 10am E.S.T. |
| May 9 Manchester, NH May 16 Minneapolis, MN Jul 11 Manchester, NH Jul 18 Toronto, ON | Jan 17 Feb 21 Mar 7 Apr 16 | May 2 Jun 20 Jul 18 Aug 8 | Sep 5 Oct 24 Nov 7 Dec 19 |



Training & Certification Schedule



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

| Mar 10 - 14 Ottawa, ON Mar 10 - 14 Ottawa, ON Mar 17 - 21 Minneapolis, MN Mar 17 - 21 Seattle, WA Mar 17 - 21 Seattle, WA Mar 24 - 28 Manchester, NH Mar 31 - Apr 4 Anaheim, CA Mar 31 - Apr 4 Anaheim, CA Mar 31 - Apr 4 Akron, OH Apr 7 - 11 Seattle, WA Aug 18 - 22 San Diego, CA Mar 31 - Apr 4 Buffalo, NY Aug 18 - 22 Akron, OH Apr 7 - 11 Seattle, WA Apr 7 - 11 Seattle, WA Apr 7 - 11 Watertown, CT Apr 14 - 18 Manchester, NH Aug 25 - 29 Toronto, ON Apr 21 - 25 Rochester, NY Aug 25 - 29 Rochester, NY | Jan 13 - 17 | Jul 28 - Aug 1 Anaheim, CA Aug 4 - 8 Ottawa, ON Aug 11 - 15 Palm Bay, FL Aug 11 - 15 San Diego, CA Aug 18 - 22 San Jose, CA Aug 18 - 22 Akron, OH Aug 18 - 22 Halifax NS Aug 18 - 22 Seattle, WA Aug 18 - 22 Watertown, CT Aug 25 - 29 Toronto, ON |
|--|-------------|--|
|--|-------------|--|

| Aug 25 - 29 Pittsburgh, PA |
|--------------------------------|
| Aug 25 - 29 Manchester, NH |
| Sep 8 - 12 Schaumburg, IL |
| Sep 22 - 26 Minneapolis, MN |
| Sep 22 - 26 Manchester, NH |
| Sep 29 - Oct 3 San Jose, CA |
| Sep 29 - Oct 3 Portland, OR |
| Oct 6 - 10 Toronto, ON |
| Oct 6 - 10 Binghamton, NY |
| Oct 6 - 10 Philadelphia, PA |
| Oct 13 - 17 Seattle, WA |
| Oct 13 - 17 Manchester, NH |
| Oct 20 - 24 Anaheim, CA |
| Oct 27 - 31 Watertown, CT |
| Nov 3 - 7 Syracuse, NY |
| Nov 3 - 7 San Jose, CA |
| Nov 10 - 14 Palm Bay, FL |
| Nov 10 - 14 San Diego, CA |
| Nov 10 - 14 Minneapolis, MN |
| Nov 17 - 21 Buffalo, NY |
| Nov 17 - 21 Manchester, NH |
| Nov 24 - 28 Ottawa, ON |
| Dec 1 - 5 Seattle, WA |
| Dec 8 - 12 Watertown, CT |
| Dec 8 - 12 Manchester, NH |
| Dec 15 - 19 Toronto, ON |
| Dec 15 - 19 Schaumburg, IL |
| Dec 15 - 19 Long Island, NY |
| Dec 15 - 19 Kansas City, MO |
| Dec 13 - 13 Kalisas City, IVIO |

J-STD-001 CIS Space Addendum **Certification & Recertification**

| Jan 10 Toronto, ON Jan 10 Palm Bay, FL Jan 10 Manchester, NH Jan 17 Watertown, CT Feb 7 San Jose, CA Feb 28 Minneapolis, MN Mar 7 Manchester, NH Mar 7 Rochester, NY Apr 18 Manchester, NH Apr 18 Seattle, WA Apr 18 Schaumburg, IL Apr 25 Watertown, CT May 2 Toronto, ON | Aug 15 Minneapolis, MN Aug 22 Schaumburg, IL Sep 12 Toronto, ON Sep 29 Manchester, NH Oct 17 San Jose, CA Oct 24 Minneapolis, MN Oct 31 Anaheim, CA Nov 7 Watertown, CT Nov 7 Schaumburg, IL Nov 14 | ı |
|--|---|---|
| May 9 Manchester, NH May 16 Minneapolis, MN Jul 11 Manchester, NH Jul 18 Toronto, ON | Jan 17 May 2 Sep 5 Feb 21 Jun 20 Oct 24 Mar 7 Jul 18 Nov 7 Apr 16 Aug 8 Dec 19 | |
| | | |

Challenge Test IN-PERSON Manchester, NH

Aug 1 Watertown, CT

| Jan 3 | Feb 7 | Apr 11 | Jun 6 | Aug 7 | Oct 30 | Dec 22 |
|--------|--------|--------|--------|--------|--------|--------|
| Jan 28 | Feb 26 | May 2 | Jun 19 | Sep 26 | Nov 21 | |





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

| -STD-001 CSE Certifica | tion |
|-------------------------------------|---|
| Jan 6 - 10 Portland, OR Jan 13 - 17 | Jul 14 - 18 Manchester, NH Jul 14 - 18 Kansas City, MO Jul 28 - Aug 1 |
| Jun 16 - 20 Watertown, CT | ON-LINE Start time: 10am E.S.T |
| Juli 10 20 Juli Jose , Cr | |
| Jun 23 - 27 Seattle, WA | Feb 19 - 22 Oct 21 - 24 |

| Feb 19 - 22 | Oct 21 - 24 |
|-------------|-------------|
| Jun 3 - 6 | |
| Juli 5 | |

Challenge Test

Jun 23 - 27 Toronto, ON Jul 7 - 11..... Minneapolis, MN

| IN-PERSON Manchester, NH ON- | LIN |
|------------------------------|-----|
|------------------------------|-----|

| N-PERS | ON Manchester, NH | ON-LIN | IE Start tim | ne: 10am E.S. | T. |
|--------|--------------------------|--------|---------------------|---------------|----|
| Jan 3 | Jun 19 | Jan 8 | May 14 | Sep 17 | _ |
| Jan 28 | Aug 7 | Jan 22 | May 28 | Oct 1 | |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 | Oct 15 | |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 | Oct 29 | |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 | Nov 12 | |
| May 2 | Dec 22 | Mar 19 | Jul 23 | Nov 24 | |
| Jun 6 | | Apr 2 | Aug 6 | Dec 10 | |
| | | Apr 16 | Aug 20 | Dec 22 | |
| | | Apr 30 | Sep 3 | | |

J-STD-001 CSE Recertification

| Jan 8 - 9 Toronto, ON Jan 8 - 9 Palm Bay, FL Jan 8 - 9 Manchester, NH Jan 15 - 16 Watertown, CT Jan 16 - 17 Kansas City, MO Jan 22 - 23 Anaheim, CA Jan 29 - 30 Long Island, NY Feb 5 - 6 San Jose, CA Feb 19 - 20 Seattle, WA Feb 26 - 27 Minneapolis, MN Mar 5 - 6 Rochester, NY Mar 12 - 13 Palm Bay, FL Mar 12 - 13 Manchester, NH Mar 27 - 28 Ottawa, ON Apr 16 - 17 Schaumburg, IL Apr 16 - 17 Seattle, WA Apr 16 - 17 Seattle, WA Apr 30 - May 1 Toronto, ON A | Jul 16 - 17 Toronto, ON Jul 23 - 24 Rochester, NY Jul 30 - 31 San Jose, CA Jul 30 - 31 Vatertown, CT Aug 13 - 14 Minneapolis, MN Aug 14 - 15 Buffalo, NY Aug 20 - 21 Schaumburg, IL Aug 27 - 28 Palm Bay, FL Aug 27 - 28 |
|---|--|
| | |
| | |

Challenge Test

IN-PERSON Manchester, NH ON-LINE Start time: 10am E.S.T.

Aug 2 Portland, OR

| | I Widi ichester, ivi i | 011 - | - Start un | ic. Tourn L.J.T. |
|--------|------------------------|--------|------------|------------------|
| Jan 3 | Jun 19 | Jan 8 | May 14 | Sep 17 |
| Jan 28 | Aug 7 | Jan 22 | May 28 | Oct 1 |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 | Oct 15 |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 | Oct 29 |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 | Nov 12 |
| May 2 | Dec 22 | Mar 19 | Jul 23 | Nov 24 |
| Jun 6 | | Apr 2 | Aug 6 | Dec 10 |
| | | Apr 16 | Aug 20 | Dec 22 |
| | | Apr 30 | Sep 3 | |
| | | | | |

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

| Jan 12 Toronto, ON | Aug 2 | Water | town, CT |
|-----------------------|-----------------|---------------|---------------|
| Jan 19 Watertown, CT | Sep 13 | Toront | to, ON |
| Jan 29 Manchester, NH | Sep 30 | Mancl | hester, NH |
| Mar 8 Manchester, NH | Nov 1 | Anahe | eim, CA |
| Apr 19 Seattle, WA | Nov 15 . | Mancl | hester, NH |
| Apr 26 Watertown, CT | Nov 22 . | Toront | to, ON |
| May 1 Manchester, NH | Dec 23 | Mancl | hester, NH |
| May 3 Rochester, NY | ANI I IN | _ | |
| May 3 Toronto, ON | ON-LIN | E Start time: | : 10am E.S.T. |
| May 10 Manchester, NH | Jan 17 | May 2 | Sep 5 |
| Jul 12 Manchester, NH | Feb 21 | Jun 20 | Oct 24 |
| Jul 19 Toronto, ON | Mar 7 | Jul 18 | Nov 7 |

Apr 16

Aug 8

Dec 19





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 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 10 Toronto, ON | • |
|---------------------|---------------------------------|
| Jan 10 Palm Bay, Fl | L Sep 29 Manchester, NH |
| Jan 10 Manchester | , NH Oct 17 San Jose, CA |
| Jan 17 Watertown | , CT Oct 24 Minneapolis, MN |
| Feb 7 San Jose, C | A Oct 31 Anaheim, CA |
| Feb 28 Minneapolis | s, MN Nov 7 Watertown, CT |
| Mar 7 Manchester | r, NH Nov 7 Schaumburg, IL |
| Mar 7 Rochester, N | NY Nov 14 Manchester, NH |
| Apr 18 Seattle, WA | Nov 21 Toronto, ON |
| Apr 18 San Jose, C. | A Dec 22 Manchester, NH |
| Apr 18 Schaumbur | g, IL |
| Apr 25 Watertown | CT ON-LINE Start time: 10am E.S |

S.T.

| Jan 17 | Jul 18 | |
|--------|--------|--|
| Feb 21 | Aug 8 | |
| Mar 7 | Sep 5 | |
| Apr 16 | Oct 24 | |
| May 2 | Nov 7 | |
| Jun 20 | Dec 19 | |
| | | |
| | | |

Challenge Test IN-PERSON Manchester, NH

May 2 Toronto, ON

May 9 Manchester, NH

May 16 Minneapolis, MN

Jul 11..... Manchester, NH

Aug 15 Minneapolis, MN

Aug 22 Schaumburg, IL

Jul 18. Toronto, ON Aug 1 Watertown, CT

| Jan 3 | Apr 11 | Aug 7 | Dec 22 |
|-----------------|----------------|------------------|--------|
| Jan 28 Feb 7 | May 2 Jun 6 | Sep 26 Oct 30 | |
| Feb 26 | Jun 19 | Nov 21 | |



Training & Certification



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.

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

.S.T.

Challenge Test

May 19 - 22 . . Portland, OR

May 19 - 22 . . Akron, OH

Jun 2 - 5 Palm Bay, FL

Jun 9 - 12 Seattle, WA

Jun 16 - 19 . . . Toronto, ON

Jun 16 - 19 . . . Anaheim, CA

Jun 23 - 26 . . . San Jose, CA

Jun 23 - 26 . . . Rochester, NY

Jun 23 - 26 . . . Manchester, NH

Jun 23 - 26 . . . Watertown, CT

Jul 21 - 24 San Jose, CA

Aug 4 - 7. . . . Portland, OR

Aug 4 - 7. . . . San Diego, CA

Jul 14 - 17 Minneapolis, MN Jul 21 - 24 Manchester, NH

Jun 2 - 5 Schaumburg, IL Jun 9 - 12 Buffalo, NY

IN-PERSON Manchester, NH

| Jan 3 | Jun 19 |
|--------|--------|
| Jan 28 | Aug 7 |
| Feb 7 | Sep 26 |
| Feb 26 | Oct 30 |
| Apr 11 | Nov 21 |
| May 2 | Dec 22 |
| Jun 6 | |
| | |

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

| Feb 5 Feb 19 Mar 5 Mar 19 Apr 2 Apr 16 | Jun 11 Jun 25 Jul 9 Jul 23 Aug 6 Aug 20 | Oct 15 Oct 29 Nov 12 Nov 24 Dec 10 Dec 22 |
|---|--|--|
| Apr 30 | Sep 3 | |
| Apr 2 | Aug 6 Aug 20 | Dec 10 |

IPC-A-620 CIT Recertification

| Jan 2 - 3 Toronto, ON Feb 5 - 6 Palm Bay, FL Feb 18 - 19 Schaumburg, IL Feb 24 - 25 Anaheim, CA Feb 24 - 25 Manchester, NH Mar 24 - 25 Minneapolis, MN Mar 24 - 25 Watertown, CT Apr 2 - 3 San Jose, CA | Oct 2 - 3 Rochester, NY Oct 2 - 3 Watertown, CT Oct 15 - 16 Schaumburg, IL Nov 24 - 25 Manchester, NH Dec 22 - 23 Toronto, ON ON-LINE Start time: 10am E.S.T. |
|--|--|
| May 19 - 20 Watertown, CT May 21 - 22 Toronto, ON Jun 23 - 24 Minneapolis, MN Jun 30 - Jul 1 Manchester, NH Jul 9 - 10 San Jose, CA Jul 10 - 11 Palm Bay, FL Jul 28 - 29 Schaumburg, IL Aug 7 - 8 Watertown, CT Sep 3 - 4 Minneapolis, MN Sep 4 - 5 Anaheim, CA Sep 29 - 30 Toronto, ON Oct 2 - 3 Palm Bay, FL | Jan 22 - 23 Mar 5 - 6 May 7 - 8 Jul 23 - 24 Aug 27 - 28 Nov 5 - 6 |

Challenge Test

IN-PERSON Manchester, NH ON-LINE Start time: 10am E.S.T.

| | I Widi ichestel, INI I | 011 - | - Start till | ic. Toditi E.J. | ١. |
|--------|------------------------|--------|--------------|-----------------|----|
| Jan 3 | Jun 19 | Jan 8 | May 14 | Sep 17 | _ |
| Jan 28 | Aug 7 | Jan 22 | May 28 | Oct 1 | |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 | Oct 15 | |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 | Oct 29 | |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 | Nov 12 | |
| May 2 | Dec 22 | Mar 19 | Jul 23 | Nov 24 | |
| Jun 6 | | Apr 2 | Aug 6 | Dec 10 | |
| | | Apr 16 | Aug 20 | Dec 22 | |
| | | Apr 30 | Sep 3 | | |
| | | | | | |

ALSO AVAILABLE

IPC-A-620 Hands-on Lab

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





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.

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

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

| Jan 13 - 16 | Jul 7 - 10 |
|----------------|----------------|
| Feb 3 - 6 | Jul 28 - 31 |
| Feb 24 - 27 | Aug 18 - 21 |
| Mar 17 - 20 | Sep 8 - 11 |
| Apr 7 - 10 | Sep 29 - Oct 2 |
| Apr 28 - May 1 | Oct 20 - 23 |
| May 19 - 22 | Nov 10 - 13 |
| Jun 9 - 12 | Dec 1 - 4 |

Challenge Test

IN-PERSON Manchester, NH

| Jan 3 | Jun 19 |
|--------|--------|
| Jan 28 | Aug 7 |
| Feb 7 | Sep 26 |
| Feb 26 | Oct 30 |
| Apr 11 | Nov 21 |
| May 2 | Dec 22 |
| Jun 6 | |
| | |

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

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





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

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.

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

| l | PC-A-02U | CSE Certificat | uon |
|---|---------------|-------------------|-------------------------------------|
| | Jan 6 - 9 | . Kansas City, MO | Jul 21 - 24 Manchester, NH |
| | Jan 6 - 9 | . Minneapolis, MN | Aug 4 - 7 San Diego, CA |
| | Jan 13 - 16 | . San Jose, CA | Aug 4 - 7 Portland, OR |
| | Jan 13 - 16 | . Manchester, NH | Aug 11 - 14 Schaumburg, IL |
| | Jan 20 - 23 | . Long Island, NY | Aug 11 - 14 Seattle, WA |
| | Jan 27 - 30 | . Portland, OR | Aug 11 - 14 Watertown, CT |
| | Feb 3 - 6 | . Anaheim, CA | Aug 18 - 21 Toronto, ON |
| | Feb 10 - 13 | . Watertown, CT | Aug 18 - 21 Anaheim, CA |
| | Feb 10 - 13 | . Seattle, WA | Sep 2 - 5 Manchester, NH |
| | Feb 10 - 13 | . San Diego, CA | Sep 8 - 11 Minneapolis, MN |
| | Feb 17 - 20 | . San Jose, CA | Sep 9 - 12 Pittsburgh, PA |
| | Feb 18 - 21 | | Sep 15 - 18 San Jose, CA |
| | Feb 24 - 27 | . Schaumburg, IL | Sep 15 - 18 Akron, OH |
| | | . Pittsburgh, PA | Sep 22 - 25 Buffalo, NY |
| | Mar 3 - 6 | . Palm Bay, FL | Sep 22 - 25 Palm Bay, FL |
| | Mar 3 - 6 | . Manchester, NH | Sep 29 - Oct 2. Long Island, NY |
| | Mar 10 - 13 | . San Jose, CA | Oct 6 - 9 Seattle, WA |
| | Mar 10 - 13 | . Minneapolis, MN | Oct 6 - 9 Rochester, NY |
| | Mar 17 - 20 | . Buffalo, NY | Oct 6 - 9 Schaumburg, IL |
| | | . Portland, OR | Oct 13 - 16 San Diego, CA |
| | Mar 24 - 27 | . Rochester, NY | Oct 13 - 16 Kansas City, MO |
| | Apr 8 - 11 | . San Diego, CA | Oct 20 - 23 Watertown, CT |
| | Apr 14 - 17 | . Watertown, CT | Oct 27 - 30 Toronto, ON |
| | Apr 14 - 17 | . Toronto, ON | Oct 27 - 30 Portland, OR |
| | Apr 21 - 24 | . Anaheim, CA | Nov 3 - 6 Anaheim, CA |
| | Apr 21 - 24 | . Seattle, WA | Nov 3 - 6 Minneapolis, MN |
| | Apr 21 - 24 | . Schaumburg, IL | Nov 10 - 13 San Jose, CA |
| | May 5 - 8 | . Kansas City, MO | Dec 1 - 4 Toronto, ON |
| | May 12 - 15 . | . San Jose, CA | Dec 8 - 11 Schaumburg, IL |
| | May 12 - 15 . | . Long Island, NY | Dec 8 - 11 Seattle, WA |
| | May 19 - 22 . | . Minneapolis, MN | Dec 8 - 11 Palm Bay, FL |
| | May 19 - 22 . | . Portland, OR | Dec 15 - 18 Watertown, CT |
| | May 19 - 22 . | . Akron, OH | Dec 15 - 18 Manchester, NH |
| | May 19 - 22 . | . Manchester, NH | OBL LINE |
| | Jun 2 - 5 | . Palm Bay, FL | DN-LINE Start time: 10am E.S |
| | Jun 2 - 5 | . Schaumburg, IL | |
| | L 0 13 | Dff-1- NIV | |

.S.T.

| Jan 13 - 16 | Jul 7 - 10 |
|-------------|----------------|
| Feb 3 - 6 | Jul 28 - 31 |
| Feb 24 - 27 | Aug 18 - 21 |
| Mar 17 - 20 | Sep 8 - 11 |
| Apr 7 - 10 | Sep 29 - Oct 2 |
| Apr 28 - 1 | Oct 20 - 23 |
| May 19 - 22 | Nov 10 - 13 |
| Jun 9 - 12 | Dec 1 - 4 |

Challenge Test IN-PERSON Manchester, NH **ON-LINE** Start time: 10am E.S.T.

Jun 9 - 12 Buffalo, NY

Jun 9 - 12 Seattle, WA

Jun 16 - 19 . . . Toronto, ON Jun 16 - 19 . . . Anaheim, CA

Jun 23 - 26 . . . San Jose, CA

Jun 23 - 26 . . . Rochester, NY

Jun 23 - 26 . . . Manchester, NH

Jun 23 - 26 . . . Watertown, CT

Jul 14 - 17 Minneapolis, MN Jul 21 - 24 San Jose, CA

Jan 28

Feb 7

Feb 26

Apr 11 May 2

Jun 6

| Jun 19 Aug 7 Sep 26 Oct 30 Nov 21 Dec 22 | Jan 8 Jan 22 Feb 5 Feb 19 Mar 5 Mar 19 Apr 2 | May 14 May 28 Jun 11 Jun 25 Jul 9 Jul 23 Aug 6 | Sep 17 Oct 1 Oct 15 Oct 29 Nov 12 Nov 24 Dec 10 | |
|---|--|--|---|--|
| | Apr 2 Apr 16 Apr 30 | Aug 6 Aug 20 Sep 3 | Dec 10 Dec 22 | |
| | | | | |

IPC-A-620 CSE Recertification

| Jan 2 - 3 Toronto, ON Feb 5 - 6 Palm Bay, FL Feb 18 - 19 Schaumburg, IL Feb 24 - 25 Anaheim, CA Feb 24 - 25 Minneapolis, MN Mar 24 - 25 Watertown, CT Apr 2 - 3 San Jose, CA May 19 - 20 Watertown, CT May 21 - 22 Toronto, ON Jun 23 - 24 Minneapolis, MN Jun 30 - Jul 1 Manchester, NH Jul 9 - 10 San Jose, CA Jul 10 - 11 | Sep 4 - 5 Anaheim, CA Sep 29 - 30 Toronto, ON Oct 2 - 3 Palm Bay, FL Oct 2 - 3 Rochester, NY Oct 2 - 3 Watertown, CT Oct 15 - 16 Schaumburg, IL Nov 24 - 25 Manchester, NH Dec 22 - 23 San Jose, CA Dec 22 - 23 Toronto, ON ON-LINE Start time: 10am E.S.T Jan 22 - 23 Mar 5 - 6 May 7 - 8 Jul 23 - 24 |
|--|--|
| 31 | , |
| Sep 3 - 4 Minneapolis, MN | Nov 5 - 6 |
| | |

Challenge Test

| ON Manchester, NH | ON-LIN | IE Start tim | ne: 10am E.S.T. |
|--------------------------|---|--|--|
| Jun 19 | Jan 8 | May 14 | Sep 17 |
| Aug 7 | Jan 22 | May 28 | Oct 1 |
| Sep 26 | Feb 5 | Jun 11 | Oct 15 |
| Oct 30 | Feb 19 | Jun 25 | Oct 29 |
| Nov 21 | Mar 5 | Jul 9 | Nov 12 |
| Dec 22 | Mar 19 | Jul 23 | Nov 24 |
| | Apr 2 | Aug 6 | Dec 10 |
| | Apr 16 | Aug 20 | Dec 22 |
| | Apr 30 | Sep 3 | |
| | Jun 19 Aug 7 Sep 26 Oct 30 Nov 21 | Jun 19 Jan 8 Aug 7 Jan 22 Sep 26 Feb 5 Oct 30 Feb 19 Nov 21 Mar 5 Dec 22 Mar 19 Apr 2 Apr 16 | Jun 19 Jan 8 May 14 Aug 7 Jan 22 May 28 Sep 26 Feb 5 Jun 11 Oct 30 Feb 19 Jun 25 Nov 21 Mar 5 Jul 9 Dec 22 Mar 19 Jul 23 Apr 2 Aug 6 Apr 16 Aug 20 |

ALSO AVAILABLE

IPC-A-620 Hands-on Lab

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





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.

EPTAC's Hands-on Cable & Wire Harness Lab

IPC/WHMA-A-620 "Requirements and Acceptance for Cable and Wire Harness Assemblies" Through hands-on labs, students perform necessary procedures for building an entire wire harness assembly.

Dec 19. Watertown, CT

| | | | 0 111 | |
|---|----------|-----------------|----------|-----------------|
| E | PTAC'S H | ands-on Cable | & Wire F | larness Lak |
| | | Kansas City, MO | Jun 27 | Ottawa, ON |
| | Jan 17 | Manchester, NH | Jun 27 | Rochester, NY |
| | Jan 17 | San Jose, CA | Jun 27 | Watertown, CT |
| | Jan 31 | Manchester, NH | Jun 27 | San Jose, CA |
| | Jan 31 | Ottawa, ON | Jul 11 | Syracuse, NY |
| | Feb 7 | Anaheim, CA | Jul 18 | Manchester, NH |
| | Feb 7 | Atlanta, GA | Jul 18 | Minneapolis, MN |
| | | Watertown, CT | Jul 25 | San Jose, CA |
| | Feb 14 | Seattle, WA | Jul 25 | Manchester, NH |
| | Feb 14 | San Diego, CA | Aug 8 | Manchester, NH |
| | Feb 21 | Manchester, NH | Aug 8 | San Diego, CA |
| | Feb 21 | San Jose, CA | Aug 8 | Atlanta, GA |
| | Feb 28 | Schaumburg, IL | Aug 8 | Portland, OR |
| | Feb 28 | Pittsburgh, PA | Aug 15 | Schaumburg, IL |
| | Mar 14 | | | Watertown, CT |
| | | Manchester, NH | Aug 22 | |
| | Mar 14 | | Aug 22 | |
| | | Minneapolis, MN | Aug 22 | |
| | Mar 21 | | | Binghamton, NY |
| | Mar 21 | | | Minneapolis, MN |
| | Mar 28 | | | Manchester, NH |
| | | San Diego, CA | Sep 19 | |
| | | Watertown, CT | Sep 19 | |
| | Apr 18 | | Sep 26 | |
| | | Manchester, NH | | Long Island, NY |
| | Apr 25 | | | Manchester, NH |
| | | Schaumburg, IL | Oct 10 | |
| | Apr 25 | | | Schaumburg, IL |
| | May 2 | | Oct 10 | |
| | | Kansas City, MO | | San Diego, CA |
| | | Long Island, NY | | Kansas City, MO |
| | | Manchester, NH | | Watertown, CT |
| | May 16 | | Oct 31 | , |
| | | Manchester, NH | Oct 31 | |
| | | Binghamton, NY | | Minneapolis, MN |
| | May 23 | | Nov 7 | |
| | | Minneapolis, MN | Nov 7 | |
| | Jun 6 | ,, | Nov 14 | |
| | | Manchester, NH | | Manchester, NH |
| | | Schaumburg, IL | | Manchester, NH |
| | Jun 13 | | Dec 5 | , |
| | Jun 13 | | Dec 12 | |
| | Jun 20 | | | Schaumburg, IL |
| | Jun 20 | Manchester NU | | Manchester, NH |
| | | | | |

Jun 27 Manchester, NH

ALSO AVAILABLE

Crimp Terminations Certification & Recertification

| Jan 2 | Manchester, NH |
|--------|----------------|
| Aug 15 | Manchester, NH |
| Dec 29 | Manchester, NH |





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.

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

Feb 10 - 12 . . . Toronto, ON
May 7 - 9 Toronto, ON
Jun 9 - 11 Manchester, NH
Aug 4 - 6 Toronto, ON
Oct 27 - 29 . . . Manchester, NH
Nov 26 - 28 . . Toronto, ON
Se

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

Jan 6 - 8

Mar 17 - 19

May 12 - 14

Jun 30 - Jul 2

Sep 3 - 5

Nov 3 - 5

Challenge Test

IN-PERSON Manchester, NH **ON-LINE** Start time: 10am E.S.T.

| | I Wallenester, Mil | 011 211 | Junt un | ic. rouiti L.J. i. |
|--------|--------------------|---------|---------|--------------------|
| Jan 3 | Jun 19 | Jan 8 | May 14 | Sep 17 |
| Jan 28 | Aug 7 | Jan 22 | May 28 | Oct 1 |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 | Oct 15 |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 | Oct 29 |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 | Nov 12 |
| May 2 | Dec 22 | Mar 19 | Jul 23 | Nov 24 |
| Jun 6 | | Apr 2 | Aug 6 | Dec 10 |
| | | Apr 16 | Aug 20 | Dec 22 |
| | | Apr 30 | Sep 3 | |
| | | | | |





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.

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

Feb 10 - 12 . . . Toronto, ON **ON-LINE** Start time: 10am E.S.T. Apr 2 - 4 San Diego, CA Jan 6 - 8 May 7 - 9. . . . Toronto, ON Mar 17 - 19 Jun 9 - 11 Manchester, NH May 12 - 14 Aug 4 - 6. . . . Toronto, ON Jun 30 - Jul 2 Oct 27 - 29 . . . Manchester, NH Sep 3 - 5 Nov 26 - 28... Toronto, ON Nov 3 - 5

Challenge Test

| _ | |
|---------------------------------|--|
| IN-PERSON Manchester, NH | ON-LINE Start time: 10am E.S.T. |

| Jan 3 Jan 28 Feb 7 | Jun 19 Aug 7 Sep 26 | Jan 8 Jan 22 Feb 5 | May 14 May 28 Jun 11 | Sep 17 Oct 1 Oct 15 |
|------------------------------------|----------------------------|---------------------------|----------------------------|----------------------------|
| Feb 26 Apr 11 May 2 Jun 6 | Oct 30 Nov 21 Dec 22 | Feb 19 Mar 5 Mar 19 | Jun 25 Jul 9 Jul 23 | Oct 29 Nov 12 Nov 24 |
| Juli o | | Apr 2 Apr 16 Apr 30 | Aug 6 Aug 20 Sep 3 | Dec 10 Dec 22 |





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.

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

Feb 10 - 12 . . . Toronto, ON May 7 - 9 Toronto, ON Jun 9 - 11 . . . Manchester, NH Aug 4 - 6 Toronto, ON Oct 27 - 29 . . Manchester, NH Nov 26 - 28 . . . Toronto, ON

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

Jan 6 - 8

Mar 17 - 19

May 12 - 14

Jun 30 - Jul 2

Sep 3 - 5

Nov 3 - 5

Challenge Test

Jan 28

Feb 7 Feb 26

Apr 11

May 2

Jun 6

| IN-PERSON Manchester, NH | | ON-LINE Start time: 10am E.S.T. | | | Т. |
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| lan 2 | lun 10 | Inn 9 | May 14 | Son 17 | _ |

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|--------|--------|--------|--------|---|
| Jun 19 | Jan 8 | May 14 | Sep 17 | |
| Aug 7 | Jan 22 | May 28 | Oct 1 | |
| Sep 26 | Feb 5 | Jun 11 | Oct 15 | |
| Oct 30 | Feb 19 | Jun 25 | Oct 29 | |
| Nov 21 | Mar 5 | Jul 9 | Nov 12 | |
| Dec 22 | Mar 19 | Jul 23 | Nov 24 | |
| | Apr 2 | Aug 6 | Dec 10 | |
| | Apr 16 | Aug 20 | Dec 22 | |
| | Apr 30 | Sep 3 | | |





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.

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 Cartification

| l | PC-//11///21 CII Certii | rication |
|---|-----------------------------|-----------------------------|
| | Jan 20 - 24 San Jose, CA | Jul 14 - 17 Palm Bay, FL |
| | Jan 20 - 24 Toronto, ON | Jul 21 - 25 Watertown, CT |
| | Feb 10 - 14 Manchester, NH | Aug 11 - 15 Manchester, NH |
| | Feb 10 - 14 Minneapolis, MN | Aug 25 - 29 San Jose, CA |
| | Feb 17 - 20 Palm Bay, FL | Aug 25 - 29 Minneapolis, MN |
| | Mar 3 - 7 Schaumburg, IL | Oct 6 - 10 Watertown, CT |
| | Mar 3 - 7 Watertown, CT | Oct 20 - 24 San Jose, CA |
| | Mar 10 - 14 Toronto, ON | Oct 20 - 24 Toronto, ON |
| | Apr 7 - 11 San Jose, CA | Oct 27 - 31 Manchester, NH |
| | Apr 21 - 25 Manchester, NH | Oct 27 - 31 Schaumburg, IL |
| | Jun 2 - 6 Manchester, NH | Nov 17 - 21 Minneapolis, MN |
| | Jun 2 - 6 Minneapolis, MN | Dec 1 - 5 Manchester, NH |
| | Jun 9 - 13 Toronto, ON | Dec 8 - 12 Toronto, ON |
| | Jun 9 - 13 San Jose, CA | Dec 15 - 18 Palm Bay, FL |
| | Jul 7 - 11 Schaumburg, IL | Dec 15 - 19 San Jose, CA |
| | _ | |

IPC-7711/7721 CIT Recertification

| Jan 20 - 21 Minneapolis, Jan 30 - 31 Manchester, N Feb 3 - 4 Palm Bay, FL Feb 13 - 14 Toronto, ON Feb 20 - 21 Schaumburg, Mar 26 - 27 San Jose, CA Mar 31 - Apr 1 Manchester, N Apr 14 - 15 Minneapolis, Apr 28 - 29 Schaumburg, May 5 - 6 Toronto, ON May 28 - 29 San Jose, CA May 29 - 30 Manchester, N | NH Jul 7 - 8 San Jose, CA Jul 21 - 22 Minneapolis, MN Aug 7 - 8 Toronto, ON IL Aug 4 - 5 Manchester, NH Sep 3 - 4 Schaumburg, IL NH Sep 22 - 23 Manchester, NH MN Oct 27 - 28 Minneapolis, MN IL Nov 17 - 18 Palm Bay, FL Nov 24 - 25 San Jose, CA Nov 24 - 25 Schaumburg, IL NH Nov 24 - 25 Toronto, ON |
|---|---|
| , | J. |
| Jun 9 - 10 Palm Bay, FL Jun 11 - 12 Watertown, (| Nov 24 - 25 Watertown, CT Nov 24 - 25 Manchester, NH |
| | |





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.

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

| PC-77 I I//72 I CIS Cerui | ication |
|-----------------------------|-----------------------------|
| Jan 20 - 24 San Jose, CA | Jul 14 - 17 Palm Bay, FL |
| Jan 20 - 24 Toronto, ON | Jul 21 - 25 Watertown, CT |
| Feb 10 - 14 Manchester, NH | Aug 11 - 15 Manchester, NH |
| Feb 10 - 14 Minneapolis, MN | Aug 25 - 29 San Jose, CA |
| Feb 17 - 20 Palm Bay, FL | Aug 25 - 29 Minneapolis, MN |
| Mar 3 - 7 Schaumburg, IL | Oct 6 - 10 Watertown, CT |
| Mar 3 - 7 Watertown, CT | Oct 20 - 24 San Jose, CA |
| Mar 10 - 14 Toronto, ON | Oct 20 - 24 Toronto, ON |
| Apr 7 - 11 San Jose, CA | Oct 27 - 31 Manchester, NH |
| Apr 21 - 25 Manchester, NH | Oct 27 - 31 Schaumburg, IL |
| Jun 2 - 6 Manchester, NH | Nov 17 - 21 Minneapolis, MN |
| Jun 2 - 6 Minneapolis, MN | Dec 1 - 5 Manchester, NH |
| Jun 9 - 13 Toronto, ON | Dec 8 - 12 Toronto, ON |
| Jun 9 - 13 San Jose, CA | Dec 15 - 18 Palm Bay, FL |
| Jul 7 - 11 Schaumburg, IL | Dec 15 - 19 San Jose, CA |
| | |

IPC-7711/7721 CIS Recertification

| Jan 20 - 21 Minneapolis, MN Jan 30 - 31 Manchester, NH Feb 3 - 4 Palm Bay, FL Feb 13 - 14 Toronto, ON Feb 20 - 21 Schaumburg, IL Mar 26 - 27 San Jose, CA Mar 31 - Apr 1 Manchester, NH Apr 14 - 15 Minneapolis, MN Apr 28 - 29 Schaumburg, IL May 5 - 6 Toronto, ON May 28 - 29 San Jose, CA May 29 - 30 Manchester, NH Jun 9 - 10 Palm Ray Fl | Jun 30 - Jul 1 |
|---|--|
| May 29 - 30 Manchester, NH Jun 9 - 10 Palm Bay, FL | Nov 24 - 25 Toronto, ON Nov 24 - 25 Watertown, CT |
| Jun 11 - 12 Watertown, CT | Nov 24 - 25 Manchester, NH |
| | |





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

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.

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

| | till to tio ii |
|-----------------------------|-----------------------------|
| Jan 20 - 24 San Jose, CA | Jul 14 - 17 Palm Bay, FL |
| Jan 20 - 24 Toronto, ON | Jul 21 - 25 Watertown, CT |
| Feb 10 - 14 Manchester, NH | Aug 11 - 15 Manchester, NH |
| Feb 10 - 14 Minneapolis, MN | Aug 25 - 29 San Jose, CA |
| Feb 17 - 20 Palm Bay, FL | Aug 25 - 29 Minneapolis, MN |
| Mar 3 - 7 Schaumburg, IL | Oct 6 - 10 Watertown, CT |
| Mar 3 - 7 Watertown, CT | Oct 20 - 24 San Jose, CA |
| Mar 10 - 14 Toronto, ON | Oct 20 - 24 Toronto, ON |
| Apr 7 - 11 San Jose, CA | Oct 27 - 31 Manchester, NH |
| Apr 21 - 25 Manchester, NH | Oct 27 - 31 Schaumburg, IL |
| Jun 2 - 6 Manchester, NH | Nov 17 - 21 Minneapolis, MN |
| Jun 2 - 6 Minneapolis, MN | Dec 1 - 5 Manchester, NH |
| Jun 9 - 13 Toronto, ON | Dec 8 - 12 Toronto, ON |
| Jun 9 - 13 San Jose, CA | Dec 15 - 18 Palm Bay, FL |
| Jul 7 - 11 Schaumburg, IL | Dec 15 - 19 San Jose, CA |
| | |

Challenge Test

IN-PERSON Manchester, NH **ON-LINE** Start time: 10am E.S.T.

IPC-7711/7721 CSF Recertification

| ı | PC-77 I I// / Z I CSE Rece | runcation |
|---|-------------------------------|-------------------------------|
| | Jan 20 - 21 Minneapolis, MN | Jun 30 - Jul 1 Manchester, NH |
| | Jan 30 - 31 Manchester, NH | Jul 7 - 8 San Jose, CA |
| | Feb 3 - 4 Palm Bay, FL | Jul 21 - 22 Minneapolis, MN |
| | Feb 13 - 14 Toronto, ON | Aug 7 - 8 Toronto, ON |
| | Feb 20 - 21 Schaumburg, IL | Aug 4 - 5 Manchester, NH |
| | Mar 26 - 27 San Jose, CA | Sep 3 - 4 Schaumburg, IL |
| | Mar 31 - Apr 1 Manchester, NH | Sep 22 - 23 Manchester, NH |
| | Apr 14 - 15 Minneapolis, MN | Oct 27 - 28 Minneapolis, MN |
| | Apr 28 - 29 Schaumburg, IL | Nov 17 - 18 Palm Bay, FL |
| | May 5 - 6 Toronto, ON | Nov 24 - 25 San Jose, CA |
| | May 28 - 29 San Jose, CA | Nov 24 - 25 Schaumburg, IL |
| | May 29 - 30 Manchester, NH | Nov 24 - 25 Toronto, ON |
| | Jun 9 - 10 Palm Bay, FL | Nov 24 - 25 Watertown, CT |
| | Jun 11 - 12 Watertown, CT | Nov 24 - 25 Manchester, NH |
| | | |

Challenge Test

| -PERSU | Manchester, NH | OIN-LII | NE Start tim | ne: 10am E.S | 5. l. |
|--------|----------------|---------|--------------|--------------|-------|
| an 3 | Jun 19 | Jan 8 | May 14 | Sep 17 | |

| Jan 3 | Jun 19 | Jan 8 | May 14 | Sep 17 |
|--------|--------|--------|--------|--------|
| Jan 28 | Aug 7 | Jan 22 | May 28 | Oct 1 |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 | Oct 15 |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 | Oct 29 |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 | Nov 12 |
| May 2 | Dec 22 | Mar 19 | Jul 23 | Nov 24 |
| Jun 6 | | Apr 2 | Aug 6 | Dec 10 |
| | | Apr 16 | Aug 20 | Dec 22 |
| | | Apr 30 | Sep 3 | |
| | | | | |





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.

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.

Feb 24 - 27 Jul 28 - 31 Oct 27 - 30

Challenge Test

IN-PERSON Manchester, NH

| ON-LINE | Start time: | 10am E.S. |
|---------|-------------|-----------|
|---------|-------------|-----------|

| Jan 3 Jan 28 Feb 7 | Jun 19 Aug 7 Sep 26 | Jan 8 Jan 22 Feb 5 | May 14 May 28 Jun 11 | Sep 17 Oct 1 Oct 15 |
|--------------------------|---------------------------|--------------------------|----------------------------|---------------------------|
| Feb 26 Apr 11 | Oct 30 Nov 21 | Feb 19 | Jun 25 | Oct 29 |
| May 2 | Dec 22 | Mar 5 Mar 19 | Jul 9 Jul 23 | Nov 12 Nov 24 |
| Jun 6 | 500 22 | Apr 2 | Aug 6 | Dec 10 |
| | | Apr 16 | Aug 20 | Dec 22 |
| | | Apr 30 | Sep 3 | |
| | | | | |





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.

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.

Feb 24 - 27 Jul 28 - 31 Oct 27 - 30

Jan 28

Feb 7

Feb 26

Apr 11

May 2 Jun 6

Challenge Test

IN-PERSON Manchester, NH ON-LINE Start time: 10am E.S.T.

Jun 19

Aug 7

Sep 26

Oct 30

Nov 21

Dec 22

| ei, ivi i | OIT-LITE Start time. Toam L.S. | | | |
|-----------|--------------------------------|--------|--------|--|
| | Jan 8 | May 14 | Sep 17 | |
| | Jan 22 | May 28 | Oct 1 | |
| | Feb 5 | Jun 11 | Oct 15 | |
| | Feb 19 | Jun 25 | Oct 29 | |
| | Mar 5 | Jul 9 | Nov 12 | |
| | Mar 19 | Jul 23 | Nov 24 | |
| | Apr 2 | Aug 6 | Dec 10 | |
| | Apr 16 | Aug 20 | Dec 22 | |
| | Apr 30 | Sep 3 | | |
| | | | | |

IPC-6012 Certified IPC Specialist (CIS) IPC-6012 "Qualification and Performance Specification for Rigid Printed Boards"





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

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.

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.

Feb 24 - 27 Jul 28 - 31 Oct 27 - 30

Challenge Test

IN-PERSON Manchester, NH

| ON-LINE | Start time: | 10am | E.S. |
|----------------|-------------|------|------|
|----------------|-------------|------|------|

| Jan 3 | Jun 19 | Jan 8 | May 14 | Sep 17 |
|--------|--------|--------|--------|--------|
| Jan 28 | Aug 7 | Jan 22 | May 28 | Oct 1 |
| Feb 7 | Sep 26 | Feb 5 | Jun 11 | Oct 15 |
| Feb 26 | Oct 30 | Feb 19 | Jun 25 | Oct 29 |
| Apr 11 | Nov 21 | Mar 5 | Jul 9 | Nov 12 |
| May 2 | Dec 22 | Mar 19 | Jul 23 | Nov 24 |
| Jun 6 | | Apr 2 | Aug 6 | Dec 10 |
| | | Apr 16 | Aug 20 | Dec 22 |
| | | Apr 30 | Sep 3 | |





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

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.

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 13 - 16 Feb 3 - 6 Mar 10 - 13 Apr 7 - 10 May 5 - 8

Jun 9 - 12 Jul 14 - 17 Aug 11 - 14 Sep 8 - 11 Oct 6 - 9

Nov 10 - 13 Dec 1 - 4

IPC CID+ Certification

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

FOR LECTURE AND EXAM ONLY*

Feb 10 - 13 Apr 22 - 25 Jun 23 - 26 Aug 18 - 21

Dec 8 - 11

Oct 13 - 16





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

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.

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

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 26 Jul 9 Nov 26

IDEA Essentials

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

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

Jan 2 - 3 Mar 27 - 28 Jul 10 - 11 Nov 24 - 25





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.

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.

fica

| Hand Sold | ering Certif |
|----------------------------------|-------------------------------------|
| Jan 6 - 10 | . Manchester, NH |
| Jan 6 - 10 | . Philadelphia, PA |
| Jan 13 - 17 | . Palm Bay, FL |
| Jan 20 - 24 | . Seattle, WA |
| Jan 20 - 24 | . Watertown, CT |
| Jan 27 - 31 | . Schaumburg, IL |
| Jan 27 - 31 | . Syracuse, NY |
| | . Minneapolis, MN |
| | . Manchester, NH |
| Feb 3 - 7 | |
| | . Binghamton, NY |
| Feb 10 - 14 | . Schaumburg, IL |
| Feb 24 - 28 | . San Jose, CA |
| Feb 24 - 28 | . Toronto, ON |
| Feb 24 - 28 | . Manchester, NH |
| Mar 3 - / | . San Diego, CA |
| Mar 3 - 7 | . Atlanta, GA . Long Island, NY |
| Mar 10 - 14 | . Long Island, INY |
| Mar 10 - 14 | . Seattle, VVA |
| Mar 10 - 14 | . Schaumburg, IL . Watertown, CT |
| Mar 17 - 21 | . Watertown, Cr |
| Mar 17 - 21 | Toronto ON |
| Mar 17 - 21 | |
| Mar 17 - 21 | . Manchester, NH |
| Mar 24 - 28 | . Anaheim. CA |
| Mar 24 - 28 | . Portland. OR |
| Mar 31 - Apr 4. | |
| Apr 7 - 11 | . Manchester, NH |
| Apr 7 - 11 | . Kansas City, MO |
| Apr 7 - 11 | . Schaumburg, IL |
| Apr 14 - 18 | . Syracuse, NY |
| Anr 21 - 25 | Minneanolis MN |
| Apr 28 - May 2 Apr 28 - May 2 | . San Jose, CA |
| Apr 28 - May 2 | . Pittsburgh, PA |
| Apr 28 - May 2 | . Manchester, NH |
| May 12 - 16 | . Buttalo, NY |
| May 12 - 16 | |
| May 12 - 16 | |
| May 12 - 16 | . Watertown, CT |
| May 12 - 16 | . Philadelphia, PA |
| May 10 22 | . San Diego, CA |
| May 19 - 23 | . Schaumburg, IL |
| Jun 2 - 6 | Toronto ON |
| lun 2 - 6 | . Binghamton, NY |
| Jun 2 - 6 | |
| Jun 9 - 13 | . Manchester, NH |
| | . Schaumburg, IL |
| | . Minneapolis, MN |
| Jul 7 - 11 | . Manchester, NH |
| Jul 7 - 11 | . Seattle, WA |
| Jul 7 - 11 | . San Diego, CA |

Jul 14 - 18 Schaumburg, IL

Jul 14 - 18 Pittsburgh, PA

Jul 14 - 18 San Jose, CA

Jul 21 - 25 Anaheim, CA

Hand Soldering Recertification

| Jan 3 San Jose, CA | Jun 13 San Diego, CA |
|------------------------|------------------------|
| Jan 3 Manchester, NH | Jun 18 Manchester, NH |
| Jan 10 San Diego, CA | Jun 19 Schaumburg, IL |
| Jan 24 Schaumburg, IL | Jul 2 Manchester, NH |
| Jan 24 Kansas City, MO | Jul 4 Toronto, ON |
| Feb 14 Rochester, NY | Jul 23 Minneapolis, MN |
| Feb 21 Seattle, WA | Jul 25 Rochester, NY |
| Mar 10 San Diego, CA | Aug 6 Manchester, NH |
| Mar 14 Manchester, NH | Sep 5 Minneapolis, MN |
| Mar 26 Minneapolis, MN | Sep 5 San Jose, CA |
| Mar 26 Watertown, CT | Oct 1 Toronto, ON |
| Mar 27 Schaumburg, IL | Oct 1 Watertown, CT |
| Mar 28 San Jose, CA | Oct 10 San Diego, CA |
| Apr 4 Manchester, NH | Oct 10 Manchester, NH |
| Apr 28 Anaheim, CA | Oct 17 Schaumburg, IL |
| May 23 Toronto, ON | Oct 24 Seattle, WA |
| May 27 Manchester, NH | Nov 21 Manchester, NH |
| May 30 San Jose, CA | Dec 12 Kansas City, MO |
| Jun 13 Watertown, CT | |
| | |





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.

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 24 - 25... San Jose, CA Apr 2 - 3.... Manchester, NH Apr 16 - 17... Minneapolis, MN May 29 - 30... Schaumburg, IL Jun 16 - 17... Manchester, NH Sep 3 - 4 San Jose, CA Sep 24 - 25 . . . Manchester, NH Oct 13 - 14 . . . Schaumburg, IL Dec 15 - 16 . . . Minneapolis, MN

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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

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PCB Fundamentals Training IPC-A-610 "The Acceptability of Electronic Assemblies"

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 2 Manchester, NH Aug 15 Manchester, NH Dec 29 Manchester, NH

Electrostatic Discharge (ESD) Training

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

Jan 31 Apr 11 Aug 15 Oct 31

Component ID Training

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

Jan 10 Apr 4 Jul 18 Oct 3