



TRAINING

- Expert Training in the Latest Technologies
- Industry-Demanded Certifications

PCB TECHNOLOGY

Quality & Inspection

- IPC-A-610 Instructor & Operator Certification

Soldering & Assembly

- IPC J-STD-001 Instructor & Operator Certification

Bare Board Inspection

- IPC-A-600 Instructor & Operator Certification
- IPC-6012 Instructor & Operator Certification

Rework & Repair

- IPC-7711 & IPC-7721 Instructor & Operator Certification

Hand Soldering Skills

- Soldering Basics, Wires & Terminals, Lap Solder Joints, Through-Hole and Surface Mount Training

PCB Fundamentals

- Component Identification
- Electrostatic Discharge

PCB Design

- IPC Designer & IPC Advanced Designer Certification

COUNTERFEIT COMPONENTS

IDEA-STD-1010

- Seminars & Workshops
- IDEA-STD-1010 Essentials
- SAE AS5553 Counterfeit Electronics

CABLE & WIRE HARNESS TECHNOLOGY

Quality & Inspection

- IPC-A-620 Instructor & Operator Certification

Hands-On Labs

- Crimping & Harness Assembly Training

TECHNICAL SUPPORT

- Manufacturing Start-Up
- Process Evaluation
- Subcontractor Qualification
- Equipment Evaluation
- Lead-Free, ESD, Process and Quality Audits

IPC-A-620 Certified Standard Expert (CSE)

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

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

IPC-A-620 CSE Certification

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

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

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| Jan 17 - 20 |
| Feb 7 - 10 |
| Feb 28 - Mar 3 |
| Mar 21 - 24 |
| Apr 11 - 14 |
| May 2 - 5 |
| May 23 - 26 |
| Jun 13 - 16 |
| Jul 5 - 8 |
| Jul 25 - 28 |
| Aug 15 - 18 |
| Sep 6 - 9 |
| Sep 26 - 29 |
| Oct 17 - 20 |
| Nov 7 - 10 |
| Nov 28 - 1 |
| Dec 12 - 15 |
| Dec 26 - 29 |

Challenge Test

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

Challenge Test

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

| | |
|--------|--------|
| Jan 5 | Jul 6 |
| Jan 19 | Jul 20 |
| Feb 2 | Aug 3 |
| Feb 16 | Aug 17 |
| Mar 2 | Aug 31 |
| Mar 16 | Sep 14 |
| Mar 30 | Sep 28 |
| Apr 13 | Oct 12 |
| Apr 27 | Oct 26 |
| May 11 | Nov 9 |
| May 25 | Nov 22 |
| Jun 8 | Dec 7 |
| Jun 22 | Dec 21 |

IPC-A-620 CSE Recertification

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|--------------------------|-----------------|-----------------------|-----------------|
| Jan 5 - 6 | Toronto, ON | Sep 26 - 27 | Toronto, ON |
| Jan 31 - Feb 1 | Minneapolis, MN | Oct 10 - 11 | Watertown, CT |
| Jan 31 - Feb 1 | Manchester, NH | Oct 10 - 11 | Rochester, NY |
| Feb 2 - 3 | Palm Bay, FL | Oct 19 - 20 | San Diego, CA |
| Feb 3 - 4 | Rochester, NY | Oct 19 - 20 | Palm Bay, FL |
| Feb 22 - 23 | San Diego, CA | Oct 27 - 28 | Minneapolis, MN |
| Feb 22 - 23 | Schaumburg, IL | Nov 7 - 8 | Long Island, NY |
| Feb 28 - Mar 1 | Manchester, NH | Nov 21 - 22 | Manchester, NH |
| Mar 21 - 22 | Watertown, CT | Nov 21 - 22 | Buffalo, NY |
| Apr 25 - 26 | Seattle, WA | Dec 19 - 20 | Toronto, ON |
| May 26 - 27 | Toronto, ON | | |
| May 31 - Jun 1 | Manchester, NH | | |
| Jun 2 - 3 | Long Island, NY | | |
| Jun 9 - 10 | Anaheim, CA | | |
| Jun 9 - 10 | Watertown, CT | | |
| Jun 15 - 16 | Schaumburg, IL | | |
| Jun 27 - 28 | Rochester, NY | | |
| Jun 27 - 28 | Pittsburgh, PA | | |
| Jul 11 - 12 | Minneapolis, MN | | |
| Jul 18 - 19 | Palm Bay, FL | | |
| Aug 8 - 9 | Buffalo, NY | | |
| Aug 29 - 30 | Anaheim, CA | | |
| Aug 29 - 30 | Kansas City, MO | | |
| Aug 29 - 30 | Manchester, NH | | |
| Sep 1 - 2 | Seattle, WA | | |
| Sep 12 - 13 | Schaumburg, IL | | |

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

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|-------------|
| Jan 27 - 28 |
| Feb 16 - 17 |
| Mar 9 - 10 |
| Apr 11 - 12 |
| May 11 - 12 |
| Jun 2 - 3 |
| Jul 13 - 14 |
| Aug 3 - 4 |
| Sep 14 - 15 |
| Oct 26 - 27 |
| Nov 21 - 22 |
| Dec 7 - 8 |

Challenge Test

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

Challenge Test

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

| | |
|--------|--------|
| Jan 5 | Jul 6 |
| Jan 19 | Jul 20 |
| Feb 2 | Aug 3 |
| Feb 16 | Aug 17 |
| Mar 2 | Aug 31 |
| Mar 16 | Sep 14 |
| Mar 30 | Sep 28 |
| Apr 13 | Oct 12 |
| Apr 27 | Oct 26 |
| May 11 | Nov 9 |
| May 25 | Nov 22 |
| Jun 8 | Dec 7 |
| Jun 22 | Dec 21 |

ALSO AVAILABLE

IPC-A-620 Hands-on Lab

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

Dates and locations are subject to change. Please call to check current dates and availability. Minimum enrollments are required for a class to be held.