



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

Rework & Repair

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

Hand Soldering Skills

- Soldering Basics, Wires & Terminals, 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

Canada Toronto, Ottawa & Markham, ON; Halifax, NS

Please contact us for additional locations and on-site training opportunities in your area.

IPC-A-610 Certified IPC Trainer

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

Jan 18 - 21	Toronto, ON
Apr 18 - 21	Toronto, ON
Jun 6 - 9	Ottawa, ON
Jun 22 - 25	Halifax, NS
Aug 15 - 18	Toronto, ON
Oct 17 - 20	Ottawa, ON
Nov 21 - 24	Toronto, ON

Recertifications (Req. 24 mos.)

Feb 23 - 24	Toronto, ON
Apr 25 - 26	Toronto, ON
May 17 - 18	Toronto, ON
Aug 1 - 2	Toronto, ON
Nov 15 - 16	Toronto, ON

IPC-A-610 Certified IPC Specialist

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

Jan 18 - 20	Toronto, ON
Mar 15 - 17	Toronto, ON
Apr 6 - 8	Ottawa, ON
Apr 18 - 20	Toronto, ON
Jun 6 - 8	Ottawa, ON
Jun 22 - 24	Halifax, NS
Jul 5 - 7	Toronto, ON
Aug 15 - 17	Toronto, ON
Oct 17 - 19	Ottawa, ON
Oct 25 - 27	Toronto, ON
Nov 21 - 23	Toronto, ON
Nov 28 - 30	Halifax, NS

Recertifications (Req. 24 mos.)

Jan 18 - 20	Toronto, ON
Mar 15 - 17	Toronto, ON
Apr 6 - 8	Ottawa, ON
Apr 18 - 20	Toronto, ON
Jun 6 - 8	Ottawa, ON
Jun 22 - 24	Halifax, NS
Jul 5 - 7	Toronto, ON
Aug 15 - 17	Toronto, ON
Oct 17 - 19	Ottawa, ON
Oct 25 - 27	Toronto, ON
Nov 21 - 23	Toronto, ON
Nov 28 - 30	Halifax, NS

Interactive PCB Inspection Lab (optional)

Hands-on inspection of real PCB assemblies and application of accept/reject criteria.

Jan 22	Toronto, ON
Mar 3	Ottawa, ON
Mar 18	Toronto, ON
Apr 22	Toronto, ON
Jun 10	Ottawa, ON
Jul 8	Toronto, ON
Aug 19	Toronto, ON
Oct 21	Ottawa, ON
Oct 28	Toronto, ON
Nov 25	Toronto, ON
Dec 1	Halifax, NS

J-STD-001 Certified IPC Trainer

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

Jan 4 - 8	Ottawa, ON
Feb 1 - 5	Toronto, ON
Feb 8 - 12	Halifax, NS
Jun 13 - 17	Toronto, ON
Sep 12 - 16	Toronto, ON
Dec 5 - 9	Toronto, ON

Recertifications (Req. 24 mos.)

Feb 25 - 26	Toronto, ON
Apr 27 - 28	Toronto, ON
May 19 - 20	Toronto, ON
Aug 3 - 4	Toronto, ON
Nov 17 - 18	Toronto, ON

J-STD-001 Space Addendum Certified IPC Trainer (optional)

Feb 5	Toronto, ON
Jun 17	Toronto, ON
Sep 16	Toronto, ON
Dec 9	Toronto, ON

Recertifications (Req. 24 mos.)

Feb 26	Toronto, ON
Apr 28	Toronto, ON
May 20	Toronto, ON
Aug 4	Toronto, ON
Nov 18	Toronto, ON

J-STD-001 Certified IPC Specialist

Interpret the J-STD-001 specification in 5 one-day modules: Theory, Wires & Terminals, Through-Hole, Surface Mount and Inspection

Jan 4 - 8	Ottawa, ON
Feb 1 - 5	Toronto, ON
Jun 13 - 17	Toronto, ON
Aug 8 - 12	Ottawa, ON
Sep 12 - 16	Halifax, NS
Sep 12 - 16	Toronto, ON
Dec 5 - 9	Toronto, ON
Dec 12 - 16	Ottawa, ON

Recertifications (Req. 24 mos.)

Feb 25 - 26	Toronto, ON
May 19 - 20	Toronto, ON
Aug 3 - 4	Toronto, ON
Nov 17 - 18	Toronto, ON

J-STD-001 Space Addendum Certified IPC Specialist (optional)

Module 6 covering the 001 Space Addendum.

Jan 8	Ottawa, ON
Feb 5	Toronto, ON
Jun 17	Toronto, ON
Aug 12	Ottawa, ON
Sep 16	Halifax, NS
Sep 16	Toronto, ON
Dec 9	Toronto, ON
Dec 16	Ottawa, ON

IPC-A-600 Certified IPC Trainer

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

Jun 8 - 10	Toronto, ON
Oct 12 - 14	Toronto, ON

IPC-A-600 Certified IPC Specialist

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

Jan 6 - 8	Toronto, ON
Mar 28 - 30	Toronto, ON
Jun 8 - 10	Toronto, ON
Oct 12 - 14	Toronto, ON

Recertifications (Req. 24 mos.)

Jan 6 - 8	Toronto, ON
Mar 28 - 30	Toronto, ON
Jun 8 - 10	Toronto, ON
Oct 12 - 14	Toronto, ON

IPC-6012 Certified IPC Trainer

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

Jan 5 - 8	Toronto, ON
Aug 29 - Sep 1	Toronto, ON

IPC-6012 Certified IPC Specialist

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

Jan 5 - 8	Toronto, ON
Aug 29 - Sep 1	Toronto, ON

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.



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- Electrostatic Discharge

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IDEA-STD-1010

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

CABLE & WIRE

HARNESST TECHNOLOGY

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- IPC-A-620 Instructor & Operator Certification

Hands-On Labs

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IPC-7711/7721 Certified IPC Trainer

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

Jan 25 - 29	Toronto, ON
May 30 - Jun 3	Toronto, ON
Oct 17 - 21	Toronto, ON
Dec 12 - 16	Toronto, ON

Recertifications (Req. 24 mos.)

Mar 7 - 8	Toronto, ON
Jun 20 - 21	Toronto, ON
Oct 4 - 5	Toronto, ON

IPC-7711/7721 Certified IPC Specialist

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

Jan 25 - 29	Toronto, ON
May 30 - Jun 3	Toronto, ON
Oct 17 - 21	Toronto, ON
Dec 12 - 16	Toronto, ON

Recertifications (Req. 24 mos.)

Mar 7 - 8	Toronto, ON
Jun 20 - 21	Toronto, ON
Oct 4 - 5	Toronto, ON

IDEA Counterfeit Component Workshop

A basic introduction to Counterfeit Mitigation and to IDEA-STD-1010, including methods for the visual detection of counterfeit and substandard characteristics through a hands-on workshop. A unique opportunity to examine real components with live, on-site microscopic magnification to obtain experience in the visual inspection techniques of IDEA-STD-1010 and learn how to detect counterfeit components firsthand.

Oct 3	Toronto, ON
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IDEA-STD-1010 Essentials

Develop an in-depth knowledge of the IDEASTD-1010 "Acceptability of Electronic Components Distributed in the Open Market" standard and a thorough understanding of its contents, application and use in the component inspection counterfeit detection process.

Feb 18 - 19	Toronto, ON
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IPC-A-620 Certified IPC Trainer

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

Feb 8 - 11	Toronto, ON
May 24 - 27	Toronto, ON
Sep 19 - 22	Ottawa, ON
Sep 26 - 29	Toronto, ON
Oct 24 - 27	Halifax, NS
Nov 28 - Dec 1	Toronto, ON

Recertifications (Req. 24 mos.)

Mar 9 - 10	Toronto, ON
Jun 22 - 23	Toronto, ON
Jul 7 - 8	Halifax, NS
Oct 6 - 7	Toronto, ON

IPC-A-620 Certified IPC Specialist

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

Jan 18 - 21	Ottawa, ON
Feb 8 - 11	Toronto, ON
Apr 11 - 14	Halifax, NS
May 2 - 5	Ottawa, ON
May 24 - 27	Toronto, ON
Sep 19 - 22	Ottawa, ON
Sep 26 - 29	Toronto, ON
Oct 24 - 27	Halifax, NS
Nov 28 - Dec 1	Toronto, ON

Recertifications (Req. 24 mos.)

Jan 18 - 21	Ottawa, ON
Feb 8 - 11	Toronto, ON
Apr 11 - 14	Halifax, NS
May 2 - 5	Ottawa, ON
May 24 - 27	Toronto, ON
Sep 19 - 22	Ottawa, ON
Sep 26 - 29	Toronto, ON
Oct 24 - 27	Halifax, NS
Nov 28 - Dec 1	Toronto, ON

IPC-A-620 Hands On Labs (optional)

Additional day of hands-on labs in which students perform necessary procedures for building an entire wire harness assembly

Jan 22	Ottawa, ON
Feb 12	Toronto, ON
Apr 15	Halifax, NS
May 6	Ottawa, ON
Sep 23	Ottawa, ON
Sep 30	Toronto, ON
Oct 28	Halifax, NS
Dec 2	Toronto, ON

Hand Soldering Certification

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 with 100 inspection points. 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 with over sixty components.

Lead and Lead-free included.

Jan 11 - 15	Toronto, ON
Feb 22 - 26	Ottawa, ON
Mar 21 - 25	Toronto, ON
Apr 25 - 29	Ottawa, ON
May 9 - 13	Toronto, ON
May 23 - 27	Halifax, NS
Jul 18 - 22	Ottawa, ON
Jul 25 - 29	Toronto, ON
Aug 22 - 26	Halifax, NS
Sep 19 - 23	Toronto, ON
Oct 31 - Nov 4	Toronto, ON
Nov 21 - 25	Ottawa, ON

Recertifications

Mar 11	Toronto, ON
Jun 24	Toronto, ON
Nov 14	Toronto, ON

IPC Certified Interconnect Designer

This course goes 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.

Sep 7 - 9	Toronto ON
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IPC Advanced Certified Interconnect Designer

This course delves into design and fabrication issues that go beyond the fundamentals of layout, component placement and routing consideration to understanding fabrication materials, testing of not only electrical, but physical aspects of boards, electrical and signaling issues, complex component mounting strategies and requirements, and fabrication considerations for high end circuitry.

Jan 5 - 8	Toronto, ON
Apr 12 - 14	Toronto ON

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.