



### 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

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

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

### IPC-A-610 Certified IPC Trainer (CIT)

Jan 17 - 20 ... Toronto, ON  
 Mar 14 - 17 ... Toronto, ON  
 Mar 28 - 31 ... Ottawa, ON  
 Jul 25 - 28 ... Toronto, ON  
 Oct 24 - 27 ... Toronto, ON  
 Nov 7 - 10 ... Ottawa, ON

#### Recertifications (Req. 24 mos.)

Jan 24 - 25 ... Toronto, ON  
 Mar 22 - 23 ... Ottawa, ON  
 May 9 - 10 ... Toronto, ON  
 Aug 2 - 3 ... Toronto, ON  
 Nov 7 - 8 ... Toronto, ON

### IPC-A-610 Certified IPC Specialist (CIS)

Jan 17 - 19 ... Toronto, ON  
 Mar 14 - 16 ... Toronto, ON  
 Mar 28 - 30 ... Ottawa, ON  
 May 31 - Jun 2 ... Halifax, NS  
 Jul 25 - 27 ... Toronto, ON  
 Oct 24 - 26 ... Toronto, ON  
 Nov 7 - 9 ... Ottawa, ON

#### Recertifications (Req. 24 mos.)

Jan 17 - 19 ... Toronto, ON  
 Mar 14 - 16 ... Toronto, ON  
 Mar 28 - 30 ... Ottawa, ON  
 May 31 - Jun 2 ... Halifax, NS  
 Jul 25 - 27 ... Toronto, ON  
 Oct 24 - 26 ... Toronto, ON  
 Nov 7 - 9 ... Ottawa, ON

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

Jan 17 - 20 ... Toronto, ON  
 Mar 14 - 17 ... Toronto, ON  
 Mar 28 - 31 ... Ottawa, ON  
 Jul 25 - 28 ... Toronto, ON  
 Oct 24 - 27 ... Toronto, ON  
 Nov 7 - 10 ... Ottawa, ON

#### Recertifications (Req. 24 mos.)

Jan 24 - 25 ... Toronto, ON  
 Mar 22 - 23 ... Ottawa, ON  
 May 9 - 10 ... Toronto, ON  
 Aug 2 - 3 ... Toronto, ON  
 Nov 7 - 8 ... Toronto, ON

### IPC-A-610 Interactive PCB Inspection Lab (CIT or CIS Option)

Jan 21 ... Toronto, ON  
 Mar 18 ... Toronto, ON  
 Apr 1 ... Ottawa, ON  
 Jul 29 ... Toronto, ON  
 Oct 28 ... Toronto, ON  
 Nov 11 ... Ottawa, ON

### J-STD-001 Certified IPC Trainer (CIT)

Jan 31 - Feb 4 ... Toronto, ON  
 Feb 28 - Mar 4 ... Ottawa, ON  
 Apr 18 - 22 ... Toronto, ON  
 Jun 13 - 17 ... Toronto, ON  
 Aug 8 - 12 ... Ottawa, ON  
 Aug 22 - 26 ... Toronto, ON  
 Sep 12 - 16 ... Toronto, ON  
 Oct 3 - 7 ... Toronto, ON  
 Nov 21 - 25 ... Ottawa, ON  
 Dec 12 - 16 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Jan 26 - 27 ... Toronto, ON  
 Mar 24 - 25 ... Ottawa, ON  
 May 11 - 12 ... Toronto, ON  
 Aug 4 - 5 ... Toronto, ON  
 Nov 9 - 10 ... Toronto, ON

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

Feb 23 ... Toronto, ON  
 May 13 ... Toronto, ON  
 Nov 11 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 23 ... Toronto, ON  
 May 13 ... Toronto, ON  
 Nov 11 ... Toronto, ON

### J-STD-001 Certified IPC Specialist (CIS)

Jan 31 - Feb 4 ... Toronto, ON  
 Feb 21 - 25 ... Halifax, NS  
 Feb 28 - Mar 4 ... Ottawa, ON  
 Apr 18 - 22 ... Toronto, ON  
 Jun 13 - 17 ... Toronto, ON  
 Aug 8 - 12 ... Ottawa, ON  
 Aug 22 - 26 ... Toronto, ON  
 Sep 12 - 16 ... Toronto, ON  
 Oct 3 - 7 ... Toronto, ON  
 Nov 21 - 25 ... Ottawa, ON  
 Dec 12 - 16 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Jan 31 - Feb 4 ... Toronto, ON  
 Feb 21 - 25 ... Halifax, NS  
 Feb 28 - Mar 4 ... Ottawa, ON  
 Apr 18 - 22 ... Toronto, ON  
 Jun 13 - 17 ... Toronto, ON  
 Aug 8 - 12 ... Ottawa, ON  
 Aug 22 - 26 ... Toronto, ON  
 Sep 12 - 16 ... Toronto, ON  
 Oct 3 - 7 ... Toronto, ON  
 Nov 21 - 25 ... Ottawa, ON  
 Dec 12 - 16 ... Toronto, ON

### J-STD-001 CIS Space Addendum Certification

Feb 23 ... Toronto, ON  
 May 13 ... Toronto, ON  
 Nov 11 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 23 ... Toronto, ON  
 May 13 ... Toronto, ON  
 Nov 11 ... Toronto, ON

### J-STD-001 Certified Standards Expert (CSE)

Jan 31 - Feb 4 ... Toronto, ON  
 Feb 28 - Mar 4 ... Ottawa, ON  
 Apr 18 - 22 ... Toronto, ON  
 Jun 13 - 17 ... Toronto, ON  
 Aug 8 - 12 ... Ottawa, ON  
 Aug 22 - 26 ... Toronto, ON  
 Sep 12 - 16 ... Toronto, ON  
 Oct 3 - 7 ... Toronto, ON  
 Nov 21 - 25 ... Ottawa, ON  
 Dec 12 - 16 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Jan 26 - 27 ... Toronto, ON  
 Mar 24 - 25 ... Ottawa, ON  
 May 11 - 12 ... Toronto, ON  
 Aug 4 - 5 ... Toronto, ON  
 Nov 9 - 10 ... Toronto, ON

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

Feb 23 ... Toronto, ON  
 May 13 ... Toronto, ON  
 Nov 11 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 23 ... Toronto, ON  
 May 13 ... Toronto, ON  
 Nov 11 ... Toronto, ON

### IPC-A-620 Certified IPC Trainer (CIT)

Feb 14 - 17 ... Toronto, ON  
 May 16 - 19 ... Toronto, ON  
 Aug 15 - 18 ... Toronto, ON  
 Nov 28 - Dec 1 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Jan 5 - 6 ... Toronto, ON  
 May 26 - 27 ... Toronto, ON  
 Sep 26 - 27 ... Toronto, ON  
 Dec 19 - 20 ... Toronto, ON

### IPC-A-620 Certified IPC Specialist (CIS)

Jan 10 - 13 ... Ottawa, ON  
 Feb 14 - 17 ... Toronto, ON  
 May 16 - 19 ... Toronto, ON  
 Jun 20 - 23 ... Ottawa, ON  
 Aug 15 - 18 ... Toronto, ON  
 Oct 25 - 28 ... Halifax, NS  
 Oct 31 - Nov 3 ... Ottawa, ON  
 Nov 28 - Dec 1 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Jan 10 - 13 ... Ottawa, ON  
 Feb 14 - 17 ... Toronto, ON  
 May 16 - 19 ... Toronto, ON  
 Jun 20 - 23 ... Ottawa, ON  
 Aug 15 - 18 ... Toronto, ON  
 Oct 25 - 28 ... Halifax, NS  
 Oct 31 - Nov 3 ... Ottawa, ON  
 Nov 28 - Dec 1 ... Toronto, ON

### IPC-A-620 Certified Standards Expert (CSE)

Feb 14 - 17 ... Toronto, ON  
 May 16 - 19 ... Toronto, ON  
 Aug 15 - 18 ... Toronto, ON  
 Nov 28 - Dec 1 ... Toronto, ON

#### Recertifications (Req. 24 mos.)

Jan 5 - 6 ... Toronto, ON  
 May 26 - 27 ... Toronto, ON  
 Sep 26 - 27 ... Toronto, ON  
 Dec 19 - 20 ... Toronto, ON

### IPC-A-620 Hands-on Labs

Jan 14 ... Ottawa, ON  
 May 20 ... Toronto, ON  
 Jun 24 ... Ottawa, ON  
 Aug 19 ... Toronto, ON  
 Nov 4 ... Ottawa, ON  
 Dec 2 ... 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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- IPC-6012 Instructor & Operator Certification

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### HARNESST TECHNOLOGY

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- IPC-A-620 Instructor & Operator Certification

#### Hands-On Labs

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

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

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

### IPC-A-600 Certified IPC Trainer (CIT)

Feb 7 - 9 . . . . . Toronto, ON  
 May 4 - 6 . . . . . Toronto, ON  
 Aug 29 - 31 . . . . . Toronto, ON  
 Nov 16 - 18 . . . . . Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 7 - 9 . . . . . Toronto, ON  
 May 4 - 6 . . . . . Toronto, ON  
 Aug 29 - 31 . . . . . Toronto, ON  
 Nov 16 - 18 . . . . . Toronto, ON

### IPC-A-600 Certified IPC Specialist (CIS)

Feb 7 - 9 . . . . . Toronto, ON  
 May 4 - 6 . . . . . Toronto, ON  
 Aug 29 - 31 . . . . . Toronto, ON  
 Nov 16 - 18 . . . . . Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 7 - 9 . . . . . Toronto, ON  
 May 4 - 6 . . . . . Toronto, ON  
 Aug 29 - 31 . . . . . Toronto, ON  
 Nov 16 - 18 . . . . . Toronto, ON

### IPC-A-600 Certified Standards Expert (CSE)

Feb 7 - 9 . . . . . Toronto, ON  
 May 4 - 6 . . . . . Toronto, ON  
 Aug 29 - 31 . . . . . Toronto, ON  
 Nov 16 - 18 . . . . . Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 7 - 9 . . . . . Toronto, ON  
 May 4 - 6 . . . . . Toronto, ON  
 Aug 29 - 31 . . . . . Toronto, ON  
 Nov 16 - 18 . . . . . Toronto, ON

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

Mar 7 - 11 . . . . . Toronto, ON  
 Jun 6 - 10 . . . . . Toronto, ON  
 Oct 17 - 21 . . . . . Toronto, ON  
 Dec 5 - 9 . . . . . Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 24 - 25 . . . . . Toronto, ONH  
 May 2 - 3 . . . . . Toronto, ON  
 Sep 1 - 2 . . . . . Toronto, ON  
 Nov 14 - 15 . . . . . Toronto, ON

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

Mar 7 - 11 . . . . . Toronto, ON  
 Jun 6 - 10 . . . . . Toronto, ON  
 Oct 17 - 21 . . . . . Toronto, ON  
 Dec 5 - 9 . . . . . Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 24 - 25 . . . . . Toronto, ON  
 May 2 - 3 . . . . . Toronto, ON  
 Sep 1 - 2 . . . . . Toronto, ON  
 Nov 14 - 15 . . . . . Toronto, ON

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

Mar 7 - 11 . . . . . Toronto, ON  
 Jun 6 - 10 . . . . . Toronto, ON  
 Oct 17 - 21 . . . . . Toronto, ON  
 Dec 5 - 9 . . . . . Toronto, ON

#### Recertifications (Req. 24 mos.)

Feb 24 - 25 . . . . . Toronto, ON  
 May 2 - 3 . . . . . Toronto, ON  
 Sep 1 - 2 . . . . . Toronto, ON  
 Nov 14 - 15 . . . . . Toronto, ON

### Hand Soldering Certification

Jan 10 - 14 . . . . . Toronto, ON  
 Mar 21 - 25 . . . . . Toronto, ON  
 Apr 4 - 8 . . . . . Ottawa, ON  
 Apr 25 - 29 . . . . . Toronto, ON  
 May 30 - Jun 3 . . . . . Toronto, ON  
 Jul 18 - 22 . . . . . Toronto, ON  
 Sep 19 - 23 . . . . . Toronto, ON  
 Sep 26 - 30 . . . . . Ottawa, ON  
 Oct 31 - Nov 4 . . . . . Toronto, ON

#### Recertifications (Req. 24 mos.)

Jan 7 . . . . . Toronto, ON  
 May 25 . . . . . Toronto, ON  
 Jul 8 . . . . . Toronto, ON  
 Sep 28 . . . . . Toronto, ON

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