



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

Mid West Minneapolis, MN; Schaumburg & Rosemont, IL; Kansas City, MO

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

IPC-A-610 Certified IPC Trainer (CIT)

Jan 18 - 21 ... Schaumburg, IL
 Feb 15 - 18 ... Kansas City, MO
 Feb 22 - 25 ... Minneapolis, MN
 Apr 12 - 15 ... Schaumburg, IL
 May 17 - 20 ... Minneapolis, MN
 Jun 14 - 17 ... Kansas City, MO
 Jul 19 - 22 ... Schaumburg, IL
 Aug 16 - 19 ... Minneapolis, MN
 Oct 18 - 21 ... Schaumburg, IL
 Nov 1 - 4 ... Minneapolis, MN
 Nov 15 - 18 ... Kansas City, MO

Recertifications (Req. 24 mos.)

Jan 4 - 5 ... Kansas City, MO
 Jan 19 - 20 ... Minneapolis, MN
 Jan 25 - 26 ... Schaumburg, IL
 Apr 5 - 6 ... Schaumburg, IL
 May 11 - 12 ... Minneapolis, MN
 Aug 10 - 11 ... Minneapolis, MN
 Aug 23 - 24 ... Kansas City, MO
 Aug 23 - 24 ... Schaumburg, IL
 Nov 2 - 3 ... Schaumburg, IL
 Nov 15 - 16 ... Minneapolis, MN

IPC-A-610 Certified IPC Specialist (CIS)

Jan 18 - 20 ... Schaumburg, IL
 Feb 15 - 17 ... Kansas City, MO
 Apr 12 - 14 ... Schaumburg, IL
 Jun 14 - 16 ... Kansas City, MO
 Jul 19 - 21 ... Schaumburg, IL
 Oct 18 - 20 ... Schaumburg, IL
 Nov 15 - 17 ... Kansas City, MO

Recertifications (Req. 24 mos.)

Jan 18 - 20 ... Schaumburg, IL
 Feb 15 - 17 ... Kansas City, MO
 Apr 12 - 14 ... Schaumburg, IL
 Jun 14 - 16 ... Kansas City, MO
 Jul 19 - 21 ... Schaumburg, IL
 Oct 18 - 20 ... Schaumburg, IL
 Nov 15 - 17 ... Kansas City, MO

IPC-A-610 Certified Standards Expert (CSE)

Jan 18 - 21 ... Schaumburg, IL
 Feb 15 - 18 ... Kansas City, MO
 Feb 22 - 25 ... Minneapolis, MN
 Apr 12 - 15 ... Schaumburg, IL
 May 17 - 20 ... Minneapolis, MN
 Jun 14 - 17 ... Kansas City, MO
 Jul 19 - 22 ... Schaumburg, IL
 Aug 16 - 19 ... Minneapolis, MN
 Oct 18 - 21 ... Schaumburg, IL
 Nov 1 - 4 ... Minneapolis, MN
 Nov 15 - 18 ... Kansas City, MO

Recertifications (Req. 24 mos.)

Jan 4 - 5 ... Kansas City, MO
 Jan 19 - 20 ... Minneapolis, MN
 Jan 25 - 26 ... Schaumburg, IL
 Apr 5 - 6 ... Schaumburg, IL
 May 11 - 12 ... Minneapolis, MN
 Aug 10 - 11 ... Minneapolis, MN
 Aug 23 - 24 ... Kansas City, MO
 Aug 23 - 24 ... Schaumburg, IL
 Nov 2 - 3 ... Schaumburg, IL
 Nov 15 - 16 ... Minneapolis, MN

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

Jan 22 ... Schaumburg, IL
 Feb 26 ... Minneapolis, MN
 Apr 16 ... Schaumburg, IL
 Jun 18 ... Kansas City, MO
 Jul 23 ... Schaumburg, IL
 Oct 22 ... Schaumburg, IL
 Nov 5 ... Minneapolis, MN
 Nov 19 ... Kansas City, MO

J-STD-001 Certified IPC Trainer (CIT)

Feb 1 - 5 ... Schaumburg, IL
 Mar 8 - 12 ... Minneapolis, MN
 Mar 15 - 19 ... Kansas City, MO
 May 17 - 21 ... Schaumburg, IL
 Jun 21 - 25 ... Minneapolis, MN
 Jul 12 - 16 ... Kansas City, MO
 Sep 13 - 17 ... Minneapolis, MN
 Sep 20 - 24 ... Schaumburg, IL
 Dec 6 - 10 ... Schaumburg, IL
 Dec 13 - 17 ... Kansas City, MO

Recertifications (Req. 24 mos.)

Jan 6 - 7 ... Kansas City, MO
 Jan 21 - 22 ... Minneapolis, MN
 Jan 27 - 28 ... Schaumburg, IL
 Apr 7 - 8 ... Schaumburg, IL
 May 13 - 14 ... Minneapolis, MN
 Aug 12 - 13 ... Minneapolis, MN
 Aug 25 - 26 ... Kansas City, MO
 Aug 25 - 26 ... Schaumburg, IL
 Nov 4 - 5 ... Schaumburg, IL
 Nov 17 - 18 ... Minneapolis, MN

J-STD-001 Certified IPC Specialist (CIS)

Feb 1 - 5 ... Schaumburg, IL
 Mar 15 - 19 ... Kansas City, MO
 May 17 - 21 ... Schaumburg, IL
 Jul 12 - 16 ... Kansas City, MO
 Sep 20 - 24 ... Schaumburg, IL
 Dec 6 - 10 ... Schaumburg, IL
 Dec 13 - 17 ... Kansas City, MO

Recertifications (Req. 24 mos.)

Feb 1 - 5 ... Schaumburg, IL
 Mar 15 - 19 ... Kansas City, MO
 May 17 - 21 ... Schaumburg, IL
 Jul 12 - 16 ... Kansas City, MO
 Sep 20 - 24 ... Schaumburg, IL
 Dec 6 - 10 ... Schaumburg, IL
 Dec 13 - 17 ... Kansas City, MO

J-STD-001 Certified Standards Expert (CSE)

Feb 1 - 5 ... Schaumburg, IL
 Mar 8 - 12 ... Minneapolis, MN
 Mar 15 - 19 ... Kansas City, MO
 May 17 - 21 ... Schaumburg, IL
 Jun 21 - 25 ... Minneapolis, MN
 Jul 12 - 16 ... Kansas City, MO
 Sep 13 - 17 ... Minneapolis, MN
 Sep 20 - 24 ... Schaumburg, IL
 Dec 6 - 10 ... Schaumburg, IL
 Dec 13 - 17 ... Kansas City, MO

Recertifications (Req. 24 mos.)

Jan 6 - 7 ... Kansas City, MO
 Jan 21 - 22 ... Minneapolis, MN
 Jan 27 - 28 ... Schaumburg, IL
 Apr 7 - 8 ... Schaumburg, IL
 May 13 - 14 ... Minneapolis, MN
 Aug 12 - 13 ... Minneapolis, MN
 Aug 25 - 26 ... Kansas City, MO
 Aug 25 - 26 ... Schaumburg, IL
 Nov 4 - 5 ... Schaumburg, IL
 Nov 17 - 18 ... Minneapolis, MN

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Mid West Minneapolis, MN; Schaumburg & Rosemont, IL; Kansas City, MO

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IPC-A-620 Certified IPC Trainer (CIT)

Jan 11 - 14 ... Kansas City, MO
Feb 15 - 18 ... Schaumburg, IL
Apr 19 - 22 ... Minneapolis, MN
May 3 - 6 ... Schaumburg, IL
May 10 - 13 ... Kansas City, MO
Jun 7 - 10 ... Minneapolis, MN
Aug 9 - 12 ... Schaumburg, IL
Sep 20 - 23 ... Minneapolis, MN
Sep 27 - 30 ... Schaumburg, IL
Oct 11 - 14 ... Kansas City, MO
Nov 15 - 18 ... Schaumburg, IL
Nov 30 - Dec 3 ... Minneapolis, MN

Recertifications (Req. 24 mos.)

Feb 1 - 2 ... Minneapolis, MN
Feb 23 - 24 ... Schaumburg, IL
Jun 16 - 17 ... Schaumburg, IL
Jul 19 - 20 ... Minneapolis, MN
Aug 19 - 20 ... Kansas City, MO
Sep 13 - 14 ... Schaumburg, IL
Oct 28 - 29 ... Minneapolis, MN

IPC-A-620 Certified IPC Specialist (CIS)

Jan 11 - 14 ... Kansas City, MO
Feb 15 - 18 ... Schaumburg, IL
May 3 - 6 ... Schaumburg, IL
May 10 - 13 ... Kansas City, MO
Aug 9 - 12 ... Schaumburg, IL
Sep 27 - 30 ... Schaumburg, IL
Oct 11 - 14 ... Kansas City, MO
Nov 15 - 18 ... Schaumburg, IL

Recertifications (Req. 24 mos.)

Jan 11 - 14 ... Kansas City, MO
Feb 15 - 18 ... Schaumburg, IL
May 3 - 6 ... Schaumburg, IL
May 10 - 13 ... Kansas City, MO
Aug 9 - 12 ... Schaumburg, IL
Sep 27 - 31 ... Schaumburg, IL
Oct 11 - 14 ... Kansas City, MO
Nov 15 - 18 ... Schaumburg, IL

IPC-A-620 Certified Standards Expert (CSE)

Jan 11 - 14 ... Kansas City, MO
Feb 15 - 18 ... Schaumburg, IL
Apr 19 - 22 ... Minneapolis, MN
May 3 - 6 ... Schaumburg, IL
May 10 - 13 ... Kansas City, MO
Jun 7 - 10 ... Minneapolis, MN
Aug 9 - 12 ... Schaumburg, IL
Sep 20 - 23 ... Minneapolis, MN
Sep 27 - 30 ... Schaumburg, IL
Oct 11 - 14 ... Kansas City, MO
Nov 15 - 18 ... Schaumburg, IL
Nov 30 - Dec 3 ... Minneapolis, MN

Recertifications (Req. 24 mos.)

Feb 1 - 2 ... Minneapolis, MN
Feb 23 - 24 ... Schaumburg, IL
Jun 16 - 17 ... Schaumburg, IL
Jul 19 - 20 ... Minneapolis, MN
Aug 19 - 20 ... Kansas City, MO
Sep 13 - 14 ... Schaumburg, IL
Oct 28 - 29 ... Minneapolis, MN

IPC-A-620 Hands-on Labs

Jan 15 ... Kansas City, MO
Feb 19 ... Schaumburg, IL
Apr 23 ... Minneapolis, MN
Jun 11 ... Minneapolis, MN
Aug 13 ... Schaumburg, IL
Oct 1 ... Schaumburg, IL
Oct 15 ... Kansas City, MO
Nov 19 ... Schaumburg, IL

IPC-A-600 Certified IPC Trainer (CIT)

Mar 3 - 5 ... Minneapolis, MN
Mar 22 - 24 ... Schaumburg, IL
Jun 1 - 3 ... Minneapolis, MN
Jul 14 - 16 ... Schaumburg, IL
Oct 25 - 27 ... Minneapolis, MN

Recertifications (Req. 24 mos.)

Mar 3 - 5 ... Minneapolis, MN
Mar 22 - 24 ... Schaumburg, IL
Jun 1 - 3 ... Minneapolis, MN
Jul 14 - 16 ... Schaumburg, IL
Oct 25 - 27 ... Minneapolis, MN

IPC-A-600 Certified IPC Specialist (CIS)

Mar 22 - 24 ... Schaumburg, IL
Jul 14 - 16 ... Schaumburg, IL

Recertifications (Req. 24 mos.)

Mar 22 - 24 ... Schaumburg, IL
Jul 14 - 16 ... Schaumburg, IL

IPC-A-600 Certified Standards Expert (CSE)

Mar 3 - 5 ... Minneapolis, MN
Mar 22 - 24 ... Schaumburg, IL
Jun 1 - 3 ... Minneapolis, MN
Jul 14 - 16 ... Schaumburg, IL
Oct 25 - 27 ... Minneapolis, MN

Recertifications (Req. 24 mos.)

Mar 3 - 5 ... Minneapolis, MN
Mar 22 - 24 ... Schaumburg, IL
Jun 1 - 3 ... Minneapolis, MN
Jul 14 - 16 ... Schaumburg, IL
Oct 25 - 27 ... Minneapolis, MN

IPC-7711/7721 Certified IPC Trainer (CIT)

Jan 25 - 29 ... Minneapolis, MN
Mar 8 - 12 ... Schaumburg, IL
May 3 - 7 ... Minneapolis, MN
Jun 7 - 11 ... Schaumburg, IL
Oct 25 - 29 ... Schaumburg, IL
Dec 6 - 10 ... Minneapolis, MN

Recertifications (Req. 24 mos.)

Feb 25 - 26 ... Schaumburg, IL
Mar 18 - 19 ... Minneapolis, MN
Jul 14 - 15 ... Minneapolis, MN
Sep 15 - 16 ... Schaumburg, IL
Dec 13 - 14 ... Schaumburg, IL

IPC-7711/7721 Certified IPC Specialist (CIS)

Mar 8 - 12 ... Schaumburg, IL
Jun 7 - 11 ... Minneapolis, MN
Oct 25 - 29 ... Schaumburg, IL

Recertifications (Req. 24 mos.)

Feb 25 - 26 ... Schaumburg, IL
Sep 15 - 16 ... Schaumburg, IL
Dec 13 - 14 ... Schaumburg, IL

IPC-7711/7721 Certified Standards Expert (CSE)

Jan 25 - 29 ... Minneapolis, MN
Mar 8 - 12 ... Schaumburg, IL
May 3 - 7 ... Minneapolis, MN
Jun 7 - 11 ... Schaumburg, IL
Oct 25 - 29 ... Schaumburg, IL
Dec 6 - 10 ... Minneapolis, MN

Recertifications (Req. 24 mos.)

Feb 25 - 26 ... Schaumburg, IL
Mar 18 - 19 ... Minneapolis, MN
Jul 14 - 15 ... Minneapolis, MN
Sep 15 - 16 ... Schaumburg, IL
Dec 13 - 14 ... Schaumburg, IL

Hand Soldering Certification

Feb 8 - 12 ... Minneapolis, MN
Feb 8 - 12 ... Schaumburg, IL
Mar 29 - Apr 2 ... Schaumburg, IL
Apr 5 - 9 ... Kansas City, MO
Apr 12 - 16 ... Minneapolis, MN
May 10 - 14 ... Schaumburg, IL
Aug 2 - 6 ... Minneapolis, MN
Aug 2 - 6 ... Schaumburg, IL
Sep 13 - 17 ... Kansas City, MO
Oct 11 - 15 ... Minneapolis, MN
Nov 8 - 12 ... Schaumburg, IL

Recertifications (Req. 24 mos.)

Jan 8 ... Kansas City, MO
Jan 29 ... Schaumburg, IL
Jun 18 ... Schaumburg, IL
Nov 1 ... Schaumburg, IL
Nov 12 ... Kansas City, MO

Advanced SMT Micro Hand Soldering Certification

Feb 3 - 4 ... Minneapolis, MN
Mar 25 - 26 ... Schaumburg, IL
Jun 14 - 15 ... Schaumburg, IL
Jul 12 - 13 ... Minneapolis, MN
Oct 7 - 8 ... Minneapolis, MN
Oct 11 - 12 ... Schaumburg, IL
Dec 15 - 16 ... Schaumburg, IL

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