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TRAIN. WORK SMARTER. SUCCEED.

2019 Instructor Training & Certification Schedule

800-643-7822

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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

- 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-610 Certified IPC Trainer

IPC-A-610 "The Acceptability of Electronic Assemblies"

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

Jan 14 - 17 Buffalo, NY
 Jan 21 - 24 Markham, ON
 Jan 22 - 25 Watertown, CT
 Jan 28 - 31 Akron, OH
 Jan 28 - 31 San Diego, CA
 Jan 29 - Feb 1 Pittsburgh, PA
 Feb 11 - 14 Manchester, NH
 Feb 11 - 14 Rochester, NY
 Feb 18 - 21 Schaumburg, IL
 Feb 25 - 28 Palm Bay, FL
 Mar 4 - 7 Minneapolis, MN
 Mar 4 - 7 Kirkland, WA
 Mar 11 - 14 Anaheim, CA
 Mar 11 - 14 Watertown, CT
 Mar 18 - 21 Kansas City, MO
 Apr 1 - 4 Long Island, NY
 Apr 8 - 11 Binghamton, NY
 Apr 8 - 11 San Diego, CA
 Apr 22 - 25 Ottawa, ON
 Apr 22 - 25 Manchester, NH
 Apr 22 - 25 Markham, ON
 May 13 - 16 Buffalo, NY
 May 13 - 16 Palm Bay, FL
 May 20 - 23 Pittsburgh, PA
 Jun 3 - 6 Akron, OH
 Jun 10 - 13 Kansas City, MO
 Jun 10 - 13 Kirkland, WA
 Jun 17 - 20 Schaumburg, IL
 Jun 17 - 20 Manchester, NH
 Jun 17 - 20 Anaheim, CA
 Jun 24 - 27 Rochester, NY
 Jul 15 - 18 Ottawa, ON
 Jul 22 - 25 San Diego, CA
 Jul 22 - 25 Watertown, CT
 Jul 22 - 25 Minneapolis, MN
 Aug 5 - 8 Kansas City, MO
 Aug 12 - 15 Binghamton, NY
 Aug 19 - 22 Manchester, NH
 Aug 19 - 22 Markham, ON
 Sep 9 - 12 Anaheim, CA
 Sep 9 - 12 Schaumburg, IL
 Sep 16 - 19 Buffalo, NY
 Sep 17 - 20 Palm Bay, FL
 Sep 23 - 26 Kirkland, WA
 Sep 23 - 26 Pittsburgh, PA
 Sep 30 - Oct 3 Long Island, NY
 Oct 7 - 10 Rochester, NY
 Oct 14 - 17 Akron, OH
 Oct 14 - 17 San Diego, CA
 Oct 14 - 17 Minneapolis, MN
 Oct 21 - 24 Manchester, NH
 Oct 28 - 31 Watertown, CT
 Nov 5 - 8 Kansas City, MO
 Nov 18 - 21 Binghamton, NY
 Nov 25 - 28 Markham, ON
 Dec 2 - 5 Palm Bay, FL
 Dec 2 - 5 Schaumburg, IL
 Dec 9 - 12 Manchester, NH
 Dec 9 - 12 Kirkland, WA
 Dec 16 - 19 Anaheim, CA
 Dec 16 - 19 Watertown, CT
 Dec 16 - 19 Pittsburgh, PA

Recertifications (Req. 24 mos.)

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

Interactive PCB Inspection Lab

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

Jan 18 Buffalo, NY	Jul 26 San Diego, CA
Jan 25 Markham, ON	Jul 26 Watertown, CT
Feb 1 San Diego, CA	Aug 2 Santa Clara, CA
Feb 15 Rochester, NY	Aug 2 Syracuse, NY
Feb 22 Schaumburg, IL	Aug 9 Kansas City, MO
Feb 22 Baltimore, MD	Aug 16 Binghamton, NY
Feb 22 Manchester, NH	Aug 16 Manchester, NH
Mar 1 Santa Clara, CA	Aug 23 Markham, ON
Mar 8 Kirkland, WA	Sep 13 Anaheim, CA
Mar 8 Minneapolis, MN	Sep 13 Schaumburg, IL
Mar 15 Anaheim, CA	Sep 13 Manchester, NH
Mar 15 Watertown, CT	Sep 20 Buffalo, NY
Mar 22 Kansas City, MO	Sep 27 Pittsburgh, PA
Mar 28 Manchester, NH	Sep 27 Kirkland, WA
Apr 5 Long Island, NY	Oct 4 Long Island, NY
Apr 12 San Diego, CA	Oct 11 Rochester, NY
Apr 12 Binghamton, NY	Oct 18 San Diego, CA
Apr 26 Manchester, NH	Oct 18 Baltimore, MD
Apr 26 Ottawa, ON	Oct 18 Minneapolis, MN
Apr 26 Markham, ON	Oct 18 Akron, OH
May 2 Syracuse, NY	Oct 25 Manchester, NH
May 17 Buffalo, NY	Nov 1 Watertown, CT
May 23 Manchester, NH	Nov 22 Binghamton, NY
Jun 7 Akron, OH	Nov 29 Markham, ON
Jun 13 Baltimore, MD	Dec 6 Schaumburg, IL
Jun 14 Kirkland, WA	Dec 6 Halifax, NS
Jun 21 Schaumburg, IL	Dec 13 Manchester, NH
Jun 21 Anaheim, CA	Dec 20 Anaheim, CA
Jun 21 Manchester, NH	
Jun 28 Rochester, NY	
Jul 19 Ottawa, ON	
Jul 25 Manchester, NH	

Dates and locations are subject to change. Please call to check current dates and availability. A minimum enrollment of four (4) students is required for a class to be held.



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- Seminars & Workshops
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CABLE & WIRE HARNESS TECHNOLOGY

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- Crimping & Harness Assembly Training

TECHNICAL SUPPORT

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

J-STD-001 Certified IPC Trainer

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.

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

Recertifications (Req. 24 mos)

Jan 9 - 10 Manchester, NH
Jan 17 - 18 Watertown, CT
Feb 13 - 14 Schaumburg, IL
Feb 13 - 14 Markham, ON
Feb 27 - 28 Minneapolis, MN
Feb 27 - 28 Long Island, NY
Mar 13 - 14 Kansas City, MO
Mar 13 - 14 Manchester, NH
Mar 20 - 21 Rochester, NY
Mar 27 - 28 Watertown, CT
Mar 27 - 28 Binghamton, NY
Apr 3 - 4 Anaheim, CA
Apr 10 - 11 Palm Bay, FL
Apr 17 - 18 San Diego, CA
May 8 - 9 Markham, ON
May 8 - 9 Watertown, CT
May 8 - 9 Manchester, NH
May 20 - 21 Long Island, NY
Jun 5 - 6 Schaumburg, IL
Jun 6 - 7 Buffalo, NY
Jun 26 - 27 Minneapolis, MN
Jul 10 - 11 San Diego, CA
Jul 10 - 11 Manchester, NH
Jul 11 - 12 Watertown, CT
Jul 17 - 18 Rochester, NY
Jul 17 - 18 Kirkland, WA
Aug 7 - 8 Anaheim, CA
Aug 14 - 16 Markham, ON
Aug 14 - 15 Palm Bay, FL
Aug 21 - 22 Schaumburg, IL
Sep 5 - 6 Manchester, NH
Oct 7 - 8 Manchester, NH
Oct 9 - 10 Minneapolis, MN
Oct 9 - 10 Kansas City, MO
Oct 9 - 10 Binghamton, NY
Oct 23 - 24 Watertown, CT
Oct 28 - 29 Kirkland, WA
Oct 30 - 31 Palm Bay, FL
Oct 31 - Nov 1 Buffalo, NY
Nov 6 - 7 San Diego, CA
Nov 6 - 7 Manchester, NH
Nov 6 - 7 Rochester, NY
Nov 19 - 20 Long Island, NY
Nov 20 - 21 Schaumburg, IL
Nov 20 - 21 Markham, ON
Dec 4 - 5 Watertown, CT
Dec 5 - 6 Anaheim, CA
Dec 11 - 12 Kansas City, MO

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

Jan 21 Watertown, CT
Feb 7 Manchester, NH
Feb 15 Palm Bay, FL
Feb 15 Schaumburg, IL
Feb 18 Markham, ON
Mar 1 Long Island, NY
Mar 1 Minneapolis, MN
Mar 7 Manchester, NH
Mar 15 Kansas City, MO
Mar 22 Rochester, NY
Mar 29 Binghamton, NY
Apr 5 Anaheim, CA
Apr 19 San Diego, CA
May 10 Watertown, CT
May 17 Palm Bay, FL
May 24 Long Island, NY
May 27 Markham, ON
May 29 Manchester, NH
Jun 7 Schaumburg, IL
Jun 7 Buffalo, NY
Jun 14 Kansas City, MO
Jun 21 Binghamton, NY
Jul 12 Manchester, NH
Jul 12 San Diego, CA
Jul 15 Palm Bay, FL
Jul 15 Markham, ON
Jul 17 Watertown, CT
Jul 19 Kirkland, WA
Jul 19 Rochester, NY
Aug 22 Manchester, NH
Aug 30 Markham, ON
Aug 30 Anaheim, CA
Aug 30 Schaumburg, IL
Sep 16 Markham, ON
Sep 26 Manchester, NH
Oct 11 Minneapolis, MN
Oct 11 Kansas City, MO
Oct 11 Binghamton, NY
Oct 14 Manchester, NH
Oct 30 Kirkland, WA
Nov 1 Buffalo, NY
Nov 6 Palm Bay, FL
Nov 8 Rochester, NY
Nov 8 San Diego, CA
Nov 18 Markham, ON
Nov 22 Schaumburg, IL
Nov 22 Manchester, NH
Nov 22 Long Island, NY
Dec 6 Watertown, CT
Dec 23 Markham, ON

Recertifications (Req. 24 mos.)

Jan 21 Watertown, CT
Feb 7 Manchester, NH
Feb 15 Palm Bay, FL
Feb 15 Schaumburg, IL
Feb 18 Markham, ON
Mar 1 Long Island, NY
Mar 1 Minneapolis, MN
Mar 7 Manchester, NH
Mar 7 Kansas City, MO
Mar 22 Rochester, NY
Mar 29 Binghamton, NY
Apr 5 Anaheim, CA
Apr 19 San Diego, CA
May 10 Watertown, CT
May 17 Palm Bay, FL
May 24 Long Island, NY
May 27 Markham, ON
May 29 Manchester, NH
Jun 7 Schaumburg, IL
Jun 7 Buffalo, NY
Jun 14 Kansas City, MO
Jun 21 Binghamton, NY
Jul 12 Manchester, NH
Jul 12 San Diego, CA
Jul 15 Palm Bay, FL
Jul 15 Markham, ON
Jul 17 Watertown, CT
Jul 19 Kirkland, WA
Jul 19 Rochester, NY
Aug 22 Manchester, NH
Aug 30 Anaheim, CA
Aug 30 Markham, ON
Aug 30 Schaumburg, IL
Sep 16 Markham, ON
Sep 26 Manchester, NH
Oct 11 Minneapolis, MN
Oct 11 Kansas City, MO
Oct 11 Binghamton, NY
Oct 11 Manchester, NH
Oct 14 Manchester, NH
Oct 30 Kirkland, WA
Nov 1 Buffalo, NY
Nov 6 Palm Bay, FL
Nov 8 Rochester, NY
Nov 8 San Diego, CA
Nov 18 Markham, ON
Nov 22 Schaumburg, IL
Nov 22 Manchester, NH
Nov 22 Long Island, NY
Dec 6 Watertown, CT
Dec 23 Markham, ON

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- Electrostatic Discharge

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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 IPC Trainer

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.

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

Recertifications (Req. 24 mos)

Jan 22 - 23 Anaheim, CA
Jan 29 - 30 Manchester, NH
Feb 20 - 21 Markham, ON
Feb 25 - 26 Pittsburgh, PA
Mar 21 - 22 San Diego, CA
Mar 25 - 26 Minneapolis, MN
Apr 1 - 2 Manchester, NH
Apr 15 - 16 Schaumburg, IL
Apr 18 - 19 Palm Bay, FL
May 2 - 3 Watertown, CT
May 30 - 31 Manchester, NH
Jun 3 - 4 Manchester, NH
Jun 6 - 7 Kirkland, WA
Jun 26 - 27 Markham, ON
Jul 1 - 2 Buffalo, NY
Jul 15 - 16 Watertown, CT
Jul 16 - 17 Palm Bay, FL
Sep 5 - 6 Long Island, NY
Sep 5 - 6 Anaheim, CA
Sep 30 - Oct 1 Palm Bay, FL
Sep 30 - Oct 1 Minneapolis, MN
Oct 21 - 22 Schaumburg, IL
Oct 21 - 22 Kansas City, MO
Oct 23 - 24 San Diego, CA
Nov 6 - 7 Manchester, NH
Nov 20 - 21 Markham, ON
Nov 25 - 26 Watertown, CT
Dec 4 - 5 Akron, OH
Dec 9 - 10 Minneapolis, MN
Dec 23 - 24 Manchester, NH

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 11 Baltimore, MD	Jul 19 Anaheim, CA
Jan 11 Ottawa, ON	Jul 19 Schaumburg, IL
Jan 18 Minneapolis, MN	Jul 19 Manchester, NH
Jan 18 Kirkland, WA	Jul 26 Santa Clara, CA
Jan 25 Manchester, NH	Jul 26 Markham, ON
Feb 8 San Diego, CA	Aug 9 Kirkland, WA
Feb 8 Watertown, CT	Aug 23 Watertown, CT
Feb 8 Manchester, NH	Aug 23 Rochester, NY
Feb 8 Akron, OH	Aug 30 Manchester, NH
Feb 22 Buffalo, NY	Sep 13 Binghamton, NY
Feb 22 Long Island, NY	Sep 13 Long Island, NY
Feb 22 Pittsburgh, PA	Sep 20 Schaumburg, IL
Mar 1 Markham, ON	Sep 27 Ottawa, ON
Mar 8 Syracuse, NY	Oct 4 Manchester, NH
Mar 22 Santa Clara, CA	Oct 4 Markham, ON
Mar 22 Manchester, NH	Oct 11 Anaheim, CA
Mar 29 Schaumburg, IL	Oct 11 Santa Clara, CA
Apr 12 Anaheim, CA	Oct 11 Buffalo, NY
Apr 19 Halifax, NS	Oct 18 Syracuse, NY
Apr 19 Kirkland, WA	Oct 25 Kirkland, WA
Apr 26 Kansas City, MO	Nov 1 Manchester, NH
May 3 Manchester, NH	Nov 1 Halifax, NS
May 10 Binghamton, NY	Nov 8 Watertown, CT
May 10 Ottawa, ON	Nov 15 San Diego, CA
May 17 Long Island, NY	Dec 6 Manchester, NH
May 24 San Diego, CA	Dec 6 Markham, ON
May 24 Minneapolis, MN	Dec 13 Schaumburg, IL
Jun 14 Watertown, CT	Dec 13 Rochester, NY
Jun 21 Palm Bay, FL	Dec 20 Manchester, NH
Jun 21 Buffalo, NY	
Jun 28 Manchester, NH	
Jun 28 Syracuse, NY	
Jun 28 Akron, OH	



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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

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IDEA-STD-1010

- Seminars & Workshops
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CABLE & WIRE

HARNESST TECHNOLOGY

Quality & Inspection

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Hands-On Labs

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TECHNICAL SUPPORT

- Manufacturing Start-Up
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IPC-7711/7721 Certified IPC Trainer

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.

Jan 28 - Feb 1 Manchester, NH
 Jan 28 - Feb 1 Markham, ON
 Feb 4 - 8 Minneapolis, MN
 Feb 4 - 8 Kirkland, WA
 Feb 11 - 14 Palm Bay, FL
 Mar 18 - 22 Schaumburg, IL
 Apr 8 - 12 Manchester, NH
 May 6 - 10 Kirkland, WA
 May 13 - 17 Minneapolis, MN
 Jun 3 - 7 Manchester, NH
 Jun 3 - 7 Markham, ON
 Jun 10 - 14 Schaumburg, IL
 Jul 29 - Aug 1 Palm Bay, FL
 Aug 12 - 16 Minneapolis, MN
 Aug 26 - 30 Manchester, NH
 Sep 16 - 20 Kirkland, WA
 Oct 28 - Nov 1 Schaumburg, IL
 Oct 28 - Nov 1 Manchester, NH
 Nov 18 - 21 Palm Bay, FL
 Dec 2 - 6 Manchester, NH
 Dec 16 - 20 Minneapolis, MN
 Dec 16 - 20 Markham, ON

Recertifications (Req. 24 mos.)

Jan 7 - 8 Manchester, NH
 Jan 31 - Feb 1 Kirkland, WA
 Feb 19 - 20 Manchester, NH
 Mar 7 - 8 Schaumburg, IL
 Mar 28 - 29 Markham, ON
 Apr 3 - 4 Manchester, NH
 Apr 15 - 16 Palm Bay, FL
 May 30 - 31 Manchester, NH
 Jun 24 - 25 Schaumburg, IL
 Jun 24 - 25 Markham, ON
 Jul 24 - 25 Manchester, NH
 Jul 29 - 30 Minneapolis, MN
 Sep 26 - 27 Manchester, NH
 Oct 2 - 3 Manchester, NH
 Oct 3 - 4 Schaumburg, IL
 Oct 23 - 24 Markham, ON
 Nov 4 - 5 Palm Bay, FL
 Nov 4 - 5 Manchester, NH
 Dec 16 - 17 Schaumburg, IL
 Dec 23 - 24 Manchester, NH

IPC-A-600 Certified IPC Trainer

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.

Jan 9 - 11 Markham, ON
 Jan 14 - 16 Schaumburg, IL
 Feb 11 - 13 Kirkland, WA
 Mar 4 - 6 Manchester, NH
 Mar 25 - 27 Markham, ON
 Mar 27 - 29 Minneapolis, MN
 May 29 - 31 Markham, ON
 Jun 5 - 7 Manchester, NH
 Jun 24 - 26 Palm Bay, FL
 Jun 26 - 28 Schaumburg, IL
 Jul 9 - 11 Minneapolis, MN
 Sep 4 - 6 Manchester, NH
 Sep 4 - 6 Kirkland, WA
 Oct 16 - 18 Markham, ON
 Oct 21 - 23 Palm Bay, FL
 Nov 13 - 15 Manchester, NH
 Dec 11 - 13 Minneapolis, MN

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 Jan 14 - 16 Schaumburg, IL
 Feb 11 - 13 Kirkland, WA
 Mar 4 - 6 Manchester, NH
 Mar 25 - 27 Markham, ON
 Mar 27 - 29 Minneapolis, MN
 May 29 - 31 Markham, ON
 Jun 5 - 7 Manchester, NH
 Jun 24 - 26 Palm Bay, FL
 Jun 26 - 28 Schaumburg, IL
 Jul 9 - 11 Minneapolis, MN
 Sep 4 - 6 Manchester, NH
 Sep 4 - 6 Kirkland, WA
 Oct 16 - 18 Markham, ON
 Oct 21 - 23 Palm Bay, FL
 Nov 13 - 15 Manchester, NH
 Dec 11 - 13 Minneapolis, MN

IPC-6012 Certified IPC Trainer

IPC-6012 "Qualification and Performance Specification for Rigid Printed Boards"

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

Jan 8 - 11 Santa Clara, CA
 Jan 14 - 17 Manchester, NH
 Mar 11 - 14 Schaumburg, IL
 Apr 16 - 19 Manchester, NH
 Aug 6 - 9 Manchester, NH
 Aug 12 - 15 Santa Clara, CA
 Oct 15 - 18 Schaumburg, IL
 Nov 18 - 21 Manchester, NH

Recertifications (Req. 24 mos.)

Jan 8 - 11 Santa Clara, CA
 Jan 14 - 17 Manchester, NH
 Mar 11 - 14 Schaumburg, IL
 Apr 16 - 19 Manchester, NH
 Aug 6 - 9 Manchester, NH
 Aug 12 - 15 Santa Clara, CA
 Oct 15 - 18 Schaumburg, IL
 Nov 18 - 21 Manchester, NH

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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-610 Certified IPC Specialist

IPC-A-610 "The Acceptability of Electronic Assemblies"

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

Jan 14 - 16 Buffalo, NY	Oct 7 - 9 Rochester, NY	Jun 24 - 26 Rochester, NY
Jan 21 - 23 Markham, ON	Oct 14 - 16 San Diego, CA	Jul 15 - 17 Ottawa, ON
Jan 22 - 24 Watertown, CT	Oct 14 - 16 Minneapolis, MN	Jul 22 - 24 Manchester, NH
Jan 28 - 30 Akron, OH	Oct 15 - 17 Baltimore, MD	Jul 22 - 24 San Diego, CA
Jan 28 - 30 San Diego, CA	Oct 14 - 16 Akron, OH	Jul 22 - 24 Watertown, CT
Jan 29 - 31 Pittsburgh, PA	Oct 22 - 24 Manchester, NH	Jul 22 - 24 Minneapolis, MN
Feb 11 - 13 Rochester, NY	Oct 23 - 25 Ottawa, ON	Jul 29 - 31 Halifax, NS
Feb 18 - 20 Baltimore, MD	Oct 28 - 30 Watertown, CT	Jul 29 - 31 Santa Clara, CA
Feb 18 - 20 Schaumburg, IL	Nov 5 - 7 Kansas City, MO	Jul 29 - 31 Syracuse, NY
Feb 19 - 21 Manchester, NH	Nov 18 - 20 Binghamton, NY	Aug 5 - 7 Kansas City, MO
Feb 25 - 27 Santa Clara, CA	Nov 19 - 21 Santa Clara, CA	Aug 12 - 14 Binghamton, NY
Feb 25 - 27 Palm Bay, FL	Nov 25 - 27 Manchester, NH	Aug 13 - 15 Manchester, NH
Mar 4 - 6 Minneapolis, MN	Nov 25 - 27 Markham, ON	Aug 19 - 21 Markham, ON
Mar 4 - 6 Kirkland, WA	Dec 2 - 4 Palm Bay, FL	Aug 19 - 21 Anaheim, CA
Mar 11 - 13 Anaheim, CA	Dec 2 - 4 Schaumburg, IL	Sep 9 - 11 Schaumburg, IL
Mar 11 - 13 Watertown, CT	Dec 2 - 4 Halifax, NS	Sep 10 - 12 Manchester, NH
Mar 18 - 20 Kansas City, MO	Dec 9 - 11 Kirkland, WA	Sep 16 - 18 Buffalo, NY
Mar 25 - 27 Manchester, NH	Dec 16 - 18 Watertown, CT	Sep 17 - 19 Palm Bay, FL
Apr 1 - 3 Long Island, NY	Dec 16 - 18 Pittsburgh, PA	Sep 23 - 25 Syracuse, NY
Apr 8 - 10 San Diego, CA	Dec 16 - 18 Anaheim, CA	Sep 23 - 25 Pittsburgh, PA
Apr 8 - 10 Binghamton, NY		Sep 23 - 25 Kirkland, WA
Apr 22 - 24 Ottawa, ON		Sep 30 - Oct 2 Long Island, NY
Apr 22 - 24 Markham, ON		Oct 7 - 9 Rochester, NY
Apr 23 - 25 Manchester, NH		Oct 14 - 16 San Diego, CA
Apr 29 - May 1 Syracuse, NY		Oct 14 - 16 Minneapolis, MN
May 13 - 15 Buffalo, NY		Oct 15 - 17 Baltimore, MD
May 13 - 15 Palm Bay, FL		Oct 14 - 16 Akron, OH
May 20 - 22 Manchester, NH		Oct 22 - 24 Manchester, NH
May 20 - 22 Pittsburgh, PA		Oct 23 - 25 Ottawa, ON
Jun 3 - 5 Akron, OH		Oct 28 - 30 Watertown, CT
Jun 10 - 12 Baltimore, MD		Nov 5 - 7 Kansas City, MO
Jun 10 - 12 Kansas City, MO		Nov 18 - 20 Binghamton, NY
Jun 10 - 12 Kirkland, WA		Nov 19 - 21 Santa Clara, CA
Jun 17 - 19 Schaumburg, IL		Nov 25 - 27 Manchester, NH
Jun 17 - 19 Anaheim, CA		Mar 4 - 6 Minneapolis, MN
Jun 18 - 20 Manchester, NH		Mar 4 - 6 Kirkland, WA
Jun 24 - 26 Rochester, NY		Mar 11 - 13 Anaheim, CA
Jul 15 - 17 Ottawa, ON		Mar 11 - 13 Watertown, CT
Jul 22 - 24 Manchester, NH		Mar 18 - 20 Kansas City, MO
Jul 22 - 24 San Diego, CA		Mar 25 - 27 Manchester, NH
Jul 22 - 24 Watertown, CT		Apr 1 - 3 Long Island, NY
Jul 22 - 24 Minneapolis, MN		Apr 8 - 10 San Diego, CA
Jul 29 - 31 Halifax, NS		Apr 8 - 10 Binghamton, NY
Jul 29 - 31 Santa Clara, CA		Apr 22 - 24 Ottawa, ON
Jul 29 - 31 Syracuse, NY		Apr 22 - 24 Markham, ON
Aug 5 - 7 Kansas City, MO		Apr 23 - 25 Manchester, NH
Aug 12 - 14 Binghamton, NY		Apr 29 - May 1 Syracuse, NY
Aug 13 - 15 Manchester, NH		May 13 - 15 Buffalo, NY
Aug 19 - 21 Markham, ON		May 13 - 15 Palm Bay, FL
Sep 9 - 11 Anaheim, CA		May 20 - 22 Manchester, NH
Sep 9 - 11 Schaumburg, IL		May 20 - 22 Pittsburgh, PA
Sep 10 - 12 Manchester, NH		Jun 3 - 5 Akron, OH
Sep 16 - 18 Buffalo, NY		Jun 10 - 12 Baltimore, MD
Sep 17 - 19 Palm Bay, FL		Jun 10 - 12 Kansas City, MO
Sep 23 - 25 Syracuse, NY		Jun 10 - 12 Kirkland, WA
Sep 23 - 25 Pittsburgh, PA		Jun 17 - 19 Schaumburg, IL
Sep 23 - 25 Kirkland, WA		Jun 17 - 19 Anaheim, CA
Sep 30 - Oct 2 Long Island, NY		Jun 18 - 20 Manchester, NH

Recertifications (Req. 24 mos.)

Jan 14 - 16 Buffalo, NY	Jan 14 - 16 Rochester, NY
Jan 21 - 23 Markham, ON	Jan 21 - 23 San Diego, CA
Jan 22 - 24 Watertown, CT	Jan 22 - 24 Minneapolis, MN
Jan 28 - 30 Akron, OH	Jan 28 - 30 Baltimore, MD
Jan 28 - 30 San Diego, CA	Oct 14 - 16 Akron, OH
Jan 29 - 31 Pittsburgh, PA	Oct 22 - 24 Manchester, NH
Feb 11 - 13 Rochester, NY	Oct 23 - 25 Ottawa, ON
Feb 18 - 20 Baltimore, MD	Oct 28 - 30 Watertown, CT
Feb 18 - 20 Schaumburg, IL	Nov 5 - 7 Kansas City, MO
Feb 19 - 21 Manchester, NH	Nov 18 - 20 Binghamton, NY
Feb 25 - 27 Santa Clara, CA	Nov 19 - 21 Santa Clara, CA
Feb 25 - 27 Palm Bay, FL	Nov 25 - 27 Manchester, NH
Mar 4 - 6 Minneapolis, MN	Dec 2 - 4 Palm Bay, FL
Mar 4 - 6 Kirkland, WA	Dec 2 - 4 Schaumburg, IL
Mar 11 - 13 Anaheim, CA	Dec 2 - 4 Halifax, NS
Mar 11 - 13 Watertown, CT	Dec 9 - 11 Kirkland, WA
Mar 18 - 20 Kansas City, MO	Dec 16 - 18 Watertown, CT
Mar 25 - 27 Manchester, NH	Dec 16 - 18 Pittsburgh, PA
Apr 1 - 3 Long Island, NY	Dec 16 - 18 Anaheim, CA
Apr 8 - 10 San Diego, CA	
Apr 8 - 10 Binghamton, NY	
Apr 22 - 24 Ottawa, ON	
Apr 22 - 24 Markham, ON	
Apr 23 - 25 Manchester, NH	
Apr 29 - May 1 Syracuse, NY	
May 13 - 15 Buffalo, NY	
May 13 - 15 Palm Bay, FL	
May 20 - 22 Manchester, NH	
May 20 - 22 Pittsburgh, PA	
Jun 3 - 5 Akron, OH	
Jun 10 - 12 Baltimore, MD	
Jun 10 - 12 Kansas City, MO	
Jun 10 - 12 Kirkland, WA	
Jun 17 - 19 Schaumburg, IL	
Jun 17 - 19 Anaheim, CA	
Jun 18 - 20 Manchester, NH	

Interactive PCB Inspection Lab

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

Jan 18 Buffalo, NY	Jan 18 Buffalo, NY
Jan 25 Markham, ON	Jan 25 Markham, ON
Feb 1 San Diego, CA	Feb 1 San Diego, CA
Feb 15 Rochester, NY	Feb 15 Rochester, NY
Feb 22 Schaumburg, IL	Feb 22 Schaumburg, IL
Feb 22 Baltimore, MD	Feb 22 Baltimore, MD
Feb 22 Manchester, NH	Feb 22 Manchester, NH
Mar 1 Santa Clara, CA	Mar 1 Santa Clara, CA
Mar 8 Kirkland, WA	Mar 8 Kirkland, WA
Mar 8 Minneapolis, MN	Mar 8 Minneapolis, MN
Mar 15 Anaheim, CA	Mar 15 Anaheim, CA
Mar 15 Watertown, CT	Mar 15 Watertown, CT
Mar 22 Kansas City, MO	Mar 22 Kansas City, MO
Mar 28 Manchester, NH	Mar 28 Manchester, NH
Apr 5 Long Island, NY	Apr 5 Long Island, NY
Apr 12 San Diego, CA	Apr 12 San Diego, CA
Apr 12 Binghamton, NY	Apr 12 Binghamton, NY
Apr 26 Manchester, NH	Apr 26 Manchester, NH
Apr 26 Ottawa, ON	Apr 26 Ottawa, ON
Apr 26 Markham, ON	Apr 26 Markham, ON
May 2 Syracuse, NY	May 2 Syracuse, NY
May 17 Buffalo, NY	May 17 Buffalo, NY
May 23 Manchester, NH	May 23 Manchester, NH
Jun 7 Akron, OH	Jun 7 Akron, OH
Jun 13 Baltimore, MD	Jun 13 Baltimore, MD
Jun 14 Kirkland, WA	Jun 14 Kirkland, WA
Jun 21 Schaumburg, IL	Jun 21 Schaumburg, IL
Jun 21 Anaheim, CA	Jun 21 Anaheim, CA
Jun 21 Manchester, NH	Jun 21 Manchester, NH
Jun 28 Rochester, NY	Jun 28 Rochester, NY
Jul 19 Ottawa, ON	Jul 19 Ottawa, ON
Jul 25 Manchester, NH	Jul 25 Manchester, NH
Jul 26 San Diego, CA	Jul 26 San Diego, CA
Jul 26 Watertown, CT	Jul 26 Watertown, CT
Aug 2 Santa Clara, CA	Aug 2 Santa Clara, CA
Aug 2 Syracuse, NY	Aug 2 Syracuse, NY
Aug 9 Kansas City, MO	Aug 9 Kansas City, MO
Aug 16 Binghamton, NY	Aug 16 Binghamton, NY
Aug 16 Manchester, NH	Aug 16 Manchester, NH
Aug 23 Markham, ON	Aug 23 Markham, ON
Sep 13 Anaheim, CA	Sep 13 Anaheim, CA
Sep 13 Schaumburg, IL	Sep 13 Schaumburg, IL
Sep 13 Manchester, NH	Sep 13 Manchester, NH
Sep 20 Buffalo, NY	Sep 20 Buffalo, NY
Sep 27 Pittsburgh, PA	Sep 27 Pittsburgh, PA
Sep 27 Kirkland, WA	Sep 27 Kirkland, WA
Oct 4 Long Island, NY	Oct 4 Long Island, NY
Oct 11 Rochester, NY	Oct 11 Rochester, NY
Oct 18 San Diego, CA	Oct 18 San Diego, CA
Oct 18 Baltimore, MD	Oct 18 Baltimore, MD
Oct 18 Minneapolis, MN	Oct 18 Minneapolis, MN
Oct 18 Akron, OH	Oct 18 Akron, OH
Oct 25 Manchester, NH	Oct 25 Manchester, NH
Nov 1 Watertown, CT	Nov 1 Watertown, CT
Nov 22 Binghamton, NY	Nov 22 Binghamton, NY
Nov 29 Markham, ON	Nov 29 Markham, ON
Dec 6 Schaumburg, IL	Dec 6 Schaumburg, IL
Dec 6 Halifax, NS	Dec 6 Halifax, NS
Dec 13 Manchester, NH	Dec 13 Manchester, NH
Dec 20 Anaheim, CA	Dec 20 Anaheim, CA

Dates and locations are subject to change. Please call to check current dates and availability. A minimum enrollment of seven (7) students is required for a class to be held.



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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

- IPC-A-620 Instructor & Operator Certification

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TECHNICAL SUPPORT

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

J-STD-001 Certified IPC Specialist

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

Jan 7 - 11 Rochester, NY
Jan 21 - 25 Ottawa, ON
Jan 28 - Feb 1 Long Island, NY
Feb 4 - 8 Palm Bay, FL
Feb 4 - 8 Kansas City, MO
Feb 4 - 8 Markham, ON
Feb 4 - 8 Schaumburg, IL
Feb 11 - 15 Santa Clara, CA
Feb 11 - 15 Minneapolis, MN
Feb 11 - 15 Halifax, NS
Feb 18 - 22 Anaheim, CA
Feb 18 - 22 Watertown, CT
Feb 25 - Mar 1 Manchester, NH
Feb 25 - Mar 1 Kirkland, WA
Mar 4 - 8 San Diego, CA
Mar 11 - 15 Buffalo, NY
Mar 18 - 22 Baltimore, MD
Mar 25 - 29 Pittsburgh, PA
Apr 1 - 5 Palm Bay, FL
Apr 15 - 19 Watertown, CT
Apr 29 - May 3 Manchester, NH
Apr 29 - May 3 Kirkland, WA
Apr 29 - May 3 Binghamton, NY
May 6 - 10 Kansas City, MO
May 6 - 10 Pittsburgh, PA
May 13 - 17 Anaheim, CA
May 13 - 17 Schaumburg, IL
May 20 - 24 Rochester, NY
May 20 - 24 Syracuse, NY
Jun 3 - 7 San Diego, CA
Jun 10 - 13 Minneapolis, MN
Jun 17 - 21 Watertown, CT
Jul 8 - 12 Palm Bay, FL
Jul 8 - 12 Markham, ON
Jul 22 - 26 Buffalo, NY
Jul 29 - Aug 2 Akron, OH
Aug 5 - 9 Manchester, NH
Aug 5 - 9 Ottawa, ON
Aug 12 - 16 Kirkland, WA
Aug 19 - 23 Anaheim, CA
Aug 19 - 23 Schaumburg, IL
Aug 26 - 30 Santa Clara, CA

Aug 26 - 30 Long Island, NY
Sep 9 - 13 Pittsburgh, PA
Sep 9 - 13 Kansas City, MO
Sep 9 - 13 Markham, ON
Sep 16 - 20 Halifax, NS
Sep 16 - 20 Minneapolis, MN
Sep 16 - 20 Rochester, NY
Sep 23 - 27 San Diego, CA
Sep 23 - 27 Watertown, CT
Sep 30 - Oct 4 Binghamton, NY
Oct 14 - 18 Palm Bay, FL
Oct 21 - 25 Santa Clara, CA
Oct 21 - 25 Buffalo, NY
Nov 4 - 8 Minneapolis, MN
Nov 4 - 8 Schaumburg, IL
Nov 11 - 15 Syracuse, NY
Nov 18 - 22 Anaheim, CA
Dec 2 - 6 Kansas City, MO
Dec 2 - 6 Buffalo, NY
Dec 2 - 6 Kirkland, WA
Dec 9 - 13 Manchester, NH
Dec 9 - 13 San Diego, CA
Dec 9 - 13 Markham, ON
Dec 16 - 20 Ottawa, ON

Recertifications (Req. 24 mos.)

Feb 4 - 6 Manchester, NH
Feb 13 - 15 Markham, ON
Mar 4 - 6 Manchester, NH
Apr 10 - 12 Palm Bay, FL
Apr 17 - 19 Schaumburg, IL
May 8 - 10 Markham, ON
Jul 1 - 3 Manchester, NH
Aug 14 - 16 Markham, ON
Aug 14 - 16 Palm Bay, FL
Aug 19 - 21 Manchester, NH
Sep 23 - 25 Manchester, NH
Oct 9 - 11 Manchester, NH
Oct 23 - 25 Schaumburg, IL
Oct 30 - Nov 1 Palm Bay, FL
Nov 25 - 27 Manchester, NH
Nov 13 - 15 Markham, ON

Dates and locations are subject to change. Please call to check current dates and availability. A minimum enrollment of seven (7) students is required for a class to be held.

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

Module 6 covering the 001 Space Addendum.

Jan 21 Watertown, CT
Feb 7 Manchester, NH
Feb 15 Palm Bay, FL
Feb 15 Schaumburg, IL
Feb 18 Markham, ON
Mar 1 Long Island, NY
Mar 1 Minneapolis, MN
Mar 7 Manchester, NH
Mar 15 Kansas City, MO
Mar 22 Rochester, NY
Mar 29 Binghamton, NY
Apr 5 Anaheim, CA
Apr 19 San Diego, CA
May 10 Watertown, CT
May 17 Palm Bay, FL
May 24 Long Island, NY
May 27 Markham, ON
May 29 Manchester, NH
Jun 7 Schaumburg, IL
Jun 7 Buffalo, NY
Jun 14 Kansas City, MO
Jun 21 Binghamton, NY
Jul 12 Manchester, NH
Jul 12 San Diego, CA
Jul 15 Palm Bay, FL
Jul 15 Markham, ON
Jul 17 Watertown, CT
Jul 19 Kirkland, WA
Jul 19 Rochester, NY
Aug 22 Manchester, NH
Aug 30 Markham, ON
Aug 30 Anaheim, CA
Aug 30 Schaumburg, IL
Sep 16 Markham, ON
Sep 26 Manchester, NH
Oct 11 Minneapolis, MN
Oct 11 Kansas City, MO
Oct 11 Binghamton, NY
Oct 14 Manchester, NH
Oct 30 Kirkland, WA
Nov 1 Buffalo, NY
Nov 6 Palm Bay, FL
Nov 8 Rochester, NY
Nov 8 San Diego, CA
Nov 18 Markham, ON
Nov 22 Schaumburg, IL
Nov 22 Manchester, NH
Nov 22 Long Island, NY
Dec 6 Watertown, CT
Dec 23 Markham, ON

Recertifications (Req. 24 mos.)

Jan 21 Watertown, CT
Feb 7 Manchester, NH
Feb 15 Palm Bay, FL
Feb 15 Schaumburg, IL
Feb 18 Markham, ON
Feb 18 Markham, ON
Mar 1 Long Island, NY
Mar 1 Minneapolis, MN
Mar 7 Manchester, NH
Mar 7 Kansas City, MO
Mar 22 Rochester, NY
Mar 29 Binghamton, NY
Apr 5 Anaheim, CA
Apr 19 San Diego, CA
May 10 Watertown, CT
May 17 Palm Bay, FL
May 24 Long Island, NY
May 27 Markham, ON
May 29 Manchester, NH
Jun 7 Schaumburg, IL
Jun 7 Buffalo, NY
Jun 14 Kansas City, MO
Jun 21 Binghamton, NY
Jul 12 Manchester, NH
Jul 12 San Diego, CA
Jul 15 Palm Bay, FL
Jul 15 Markham, ON
Jul 17 Watertown, CT
Jul 19 Kirkland, WA
Jul 19 Rochester, NY
Aug 22 Manchester, NH
Aug 30 Markham, ON
Aug 30 Anaheim, CA
Aug 30 Schaumburg, IL
Sep 16 Markham, ON
Sep 26 Manchester, NH
Oct 11 Minneapolis, MN
Oct 11 Kansas City, MO
Oct 11 Binghamton, NY
Oct 14 Manchester, NH
Oct 30 Kirkland, WA
Nov 1 Buffalo, NY
Nov 6 Palm Bay, FL
Nov 8 Rochester, NY
Nov 8 San Diego, CA
Nov 18 Markham, ON
Nov 22 Schaumburg, IL
Nov 22 Manchester, NH
Nov 22 Long Island, NY
Dec 6 Watertown, CT
Dec 23 Markham, ON



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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 IPC Specialist

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

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

Jan 7 - 10 Baltimore, MD	Sep 9 - 12 Long Island, NY	May 6 - 9 Binghamton, NY
Jan 7 - 10 Ottawa, ON	Sep 16 - 19 Schaumburg, IL	May 6 - 9 Ottawa, ON
Jan 14 - 17 Minneapolis, MN	Sep 23 - 26 Palm Bay, FL	May 13 - 16 Long Island, NY
Jan 14 - 17 Kirkland, WA	Sep 23 - 26 Ottawa, ON	May 20 - 23 San Diego, CA
Jan 21 - 24 Kansas City, MO	Sep 24 - 27 Baltimore, MD	May 20 - 23 Minneapolis, MN
Feb 4 - 7 Manchester, NH	Sep 30 - Oct 3 Manchester, NH	Jun 3 - 6 Pittsburgh, PA
Feb 4 - 7 Akron, OH	Sep 30 - Oct 3 Markham, ON	Jun 10 - 13 Watertown, CT
Feb 4 - 7 San Diego, CA	Oct 7 - 10 Santa Clara, CA	Jun 17 - 20 Palm Bay, FL
Feb 4 - 7 Watertown, CT	Oct 7 - 10 Anaheim, CA	Jun 17 - 20 Buffalo, NY
Feb 18 - 21 Long Island, NY	Oct 7 - 10 Buffalo, NY	Jun 24 - 27 Manchester, NH
Feb 18 - 21 Buffalo, NY	Oct 14 - 17 Syracuse, NY	Jun 24 - 27 Syracuse, NY
Feb 18 - 21 Pittsburgh, PA	Oct 15 - 18 Kansas City, MO	Jun 24 - 27 Akron, OH
Feb 25 - 28 Anaheim, CA	Oct 21 - 24 Kirkland, WA	Jul 9 - 12 Kansas City, MO
Feb 25 - 28 Markham, ON	Oct 28 - 31 Manchester, NH	Jul 15 - 18 Anaheim, CA
Mar 4 - 7 Palm Bay, FL	Oct 28 - 31 Halifax, NS	Jul 15 - 18 Schaumburg, IL
Mar 4 - 7 Syracuse, NY	Nov 4 - 7 Pittsburgh, PA	Jul 22 - 25 Santa Clara, CA
Mar 18 - 21 Santa Clara, CA	Nov 4 - 7 Watertown, CT	Jul 22 - 25 Markham, ON
Mar 25 - 28 Schaumburg, IL	Nov 11 - 14 San Diego, CA	Aug 5 - 8 Pittsburgh, PA
Apr 8 - 11 Anaheim, CA	Nov 12 - 15 Minneapolis, MN	Aug 5 - 8 Minneapolis, MN
Apr 9 - 12 Baltimore, MD	Dec 2 - 5 Markham, ON	Aug 5 - 8 Kirkland, WA
Apr 9 - 12 Rochester, NY	Dec 9 - 12 Schaumburg, IL	Aug 12 - 15 San Diego, CA
Apr 15 - 18 Halifax, NS	Dec 9 - 12 Rochester, NY	Aug 19 - 22 Watertown, CT
Apr 15 - 18 Kirkland, WA	Dec 9 - 12 Akron, OH	Aug 19 - 22 Rochester, NY
Apr 22 - 25 Kansas City, MO		Aug 26 - 29 Manchester, NH
Apr 29 - May 2 Manchester, NH		Sep 9 - 12 Binghamton, NY
May 6 - 9 Binghamton, NY		Sep 9 - 12 Long Island, NY
May 6 - 9 Ottawa, ON		Sep 16 - 19 Schaumburg, IL
May 13 - 16 Long Island, NY		Sep 23 - 26 Palm Bay, FL
May 20 - 23 San Diego, CA		Sep 23 - 26 Ottawa, ON
May 20 - 23 Minneapolis, MN		Sep 24 - 27 Baltimore, MD
Jun 3 - 6 Pittsburgh, PA		Sep 30 - Oct 3 Manchester, NH
Jun 10 - 13 Watertown, CT		Sep 30 - Oct 3 Markham, ON
Jun 17 - 20 Palm Bay, FL		Oct 7 - 10 Santa Clara, CA
Jun 17 - 20 Buffalo, NY		Oct 7 - 10 Anaheim, CA
Jun 24 - 27 Manchester, NH		Oct 7 - 10 Buffalo, NY
Jun 24 - 27 Syracuse, NY		Oct 14 - 17 Syracuse, NY
Jun 24 - 27 Akron, OH		Oct 15 - 18 Kansas City, MO
Jul 9 - 12 Kansas City, MO		Oct 21 - 24 Kirkland, WA
Jul 15 - 18 Anaheim, CA		Oct 21 - 24 Manchester, NH
Jul 15 - 18 Schaumburg, IL		Oct 28 - 31 Manchester, NH
Jul 22 - 25 Santa Clara, CA		Oct 28 - 31 Halifax, NS
Jul 22 - 25 Markham, ON		Nov 4 - 7 Pittsburgh, PA
Jul 22 - 25 Pittsburgh, PA		Nov 4 - 7 Watertown, CT
Aug 5 - 8 Minneapolis, MN		Nov 11 - 14 San Diego, CA
Aug 5 - 8 Kirkland, WA		Nov 12 - 15 Minneapolis, MN
Aug 12 - 15 San Diego, CA		Dec 2 - 5 Manchester, NH
Aug 19 - 22 Watertown, CT		Dec 2 - 5 Markham, ON
Aug 19 - 22 Rochester, NY		Dec 9 - 12 Schaumburg, IL
Aug 26 - 29 Manchester, NH		Dec 9 - 12 Rochester, NY
Sep 9 - 12 Binghamton, NY		Dec 9 - 12 Akron, OH

Recertifications (Req. 24 mos.)

Jan 7 - 10 Baltimore, MD
Jan 7 - 10 Ottawa, ON
Jan 14 - 17 Minneapolis, MN
Jan 14 - 17 Kirkland, WA
Jan 21 - 24 Kansas City, MO
Feb 4 - 7 Manchester, NH
Feb 4 - 7 Akron, OH
Feb 4 - 7 San Diego, CA
Feb 4 - 7 Watertown, CT
Feb 18 - 21 Long Island, NY
Feb 18 - 21 Buffalo, NY
Feb 18 - 21 Pittsburgh, PA
Feb 25 - 28 Anaheim, CA
Feb 25 - 28 Markham, ON
Mar 4 - 7 Palm Bay, FL
Mar 4 - 7 Syracuse, NY
Mar 18 - 21 Santa Clara, CA
Mar 25 - 28 Schaumburg, IL
Apr 8 - 11 Anaheim, CA
Apr 9 - 12 Baltimore, MD
Apr 9 - 12 Rochester, NY
Apr 15 - 18 Halifax, NS
Apr 15 - 18 Kirkland, WA
Apr 22 - 25 Kansas City, MO
Apr 29 - May 2 Manchester, NH

Dates and locations are subject to change. Please call to check current dates and availability. A minimum enrollment of seven (7) students is required for a class to be held.

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 11	Baltimore, MD
Jan 11	Ottawa, ON
Jan 18	Minneapolis, MN
Jan 18	Kirkland, WA
Jan 25	Manchester, NH
Feb 8	San Diego, CA
Feb 8	Watertown, CT
Feb 8	Manchester, NH
Feb 8	Akron, OH
Feb 22	Buffalo, NY
Feb 22	Long Island, NY
Feb 22	Pittsburgh, PA
Mar 1	Markham, ON
Mar 8	Syracuse, NY
Mar 22	Santa Clara, CA
Mar 22	Manchester, NH
Mar 29	Schaumburg, IL
Apr 12	Anaheim, CA
Apr 19	Halifax, NS
Apr 19	Kirkland, WA
Apr 26	Kansas City, MO
May 3	Manchester, NH
May 10	Binghamton, NY
May 10	Ottawa, ON
May 17	Long Island, NY
May 24	San Diego, CA
May 24	Minneapolis, MN
Jun 14	Watertown, CT
Jun 21	Palm Bay, FL
Jun 21	Buffalo, NY
Jun 28	Manchester, NH
Jun 28	Syracuse, NY
Jun 28	Akron, OH
Jul 19	Anaheim, CA
Jul 19	Schaumburg, IL
Jul 19	Manchester, NH
Jul 26	Santa Clara, CA
Jul 26	Markham, ON
Jul 26	Kirkland, WA
Aug 9	Watertown, CT
Aug 23	Rochester, NY
Aug 30	Manchester, NH
Sep 13	Binghamton, NY
Sep 13	Long Island, NY
Sep 20	Schaumburg, IL
Sep 27	Ottawa, ON
Oct 4	Manchester, NH
Oct 4	Markham, ON
Oct 11	Anaheim, CA
Oct 11	Santa Clara, CA
Oct 11	Buffalo, NY
Oct 18	Syracuse, NY
Oct 25	Kirkland, WA
Nov 1	Manchester, NH
Nov 1	Halifax, NS
Nov 8	Watertown, CT
Nov 15	San Diego, CA
Dec 6	Markham, ON
Dec 13	Schaumburg, IL
Dec 13	Rochester, NY
Dec 20	Manchester, NH



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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-7711/7721 Certified IPC Specialist

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 components and surface mount components. Develop advanced skills for repairing PWBs, including conductor/land repair, lifted conductor/land/pad repair and base material.

Jan 28 - Feb 1 Manchester, NH
Jan 28 - Feb 1 Markham, ON
Feb 4 - 8 Minneapolis, MN
Feb 4 - 8 Kirkland, WA
Feb 11 - 14 Palm Bay, FL
Mar 18 - 22 Schaumburg, IL
Apr 8 - 12 Manchester, NH
May 6 - 10 Kirkland, WA
May 13 - 17 Minneapolis, MN
Jun 3 - 7 Manchester, NH
Jun 3 - 7 Markham, ON
Jun 10 - 14 Schaumburg, IL
Jul 29 - Aug 1 Palm Bay, FL
Aug 12 - 16 Minneapolis, MN
Aug 26 - 30 Manchester, NH
Sep 16 - 20 Kirkland, WA
Oct 28 - Nov 1 Schaumburg, IL
Oct 28 - Nov 1 Manchester, NH
Nov 18 - 21 Palm Bay, FL
Dec 2 - 6 Manchester, NH
Dec 16 - 20 Markham, ON
Dec 16 - 20 Minneapolis, MN

Recertifications (Req. 24 mos.)

Jan 7 - 8 Manchester, NH
Jan 31 - Feb 1 Kirkland, WA
Feb 19 - 20 Manchester, NH
Mar 7 - 8 Schaumburg, IL
Mar 28 - 29 Markham, ON
Apr 3 - 4 Manchester, NH
Apr 15 - 16 Palm Bay, FL
May 30 - 31 Manchester, NH
Jun 24 - 25 Schaumburg, IL
Jun 24 - 25 Markham, ON
Jul 24 - 25 Manchester, NH
Jul 29 - 30 Minneapolis, MN
Sep 26 - 27 Manchester, NH
Oct 2 - 3 Manchester, NH
Oct 3 - 4 Schaumburg, IL
Oct 23 - 24 Markham, ON
Nov 4 - 5 Palm Bay, FL
Nov 4 - 5 Manchester, NH
Dec 16 - 17 Schaumburg, IL
Dec 23 - 24 Manchester, NH

IPC-A-600 Certified IPC Specialist

IPC-A-600 "The Acceptability of Printed Boards"

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

Jan 9 - 11 Markham, ON
Jan 14 - 16 Schaumburg, IL
Feb 11 - 13 Kirkland, WA
Mar 4 - 6 Manchester, NH
Mar 25 - 27 Markham, ON
Mar 27 - 29 Minneapolis, MN
May 20 - 22 Santa Clara, CA
May 29 - 31 Markham, ON
Jun 5 - 7 Manchester, NH
Jun 24 - 26 Palm Bay, FL
Jun 26 - 28 Schaumburg, IL
Jul 9 - 11 Minneapolis, MN
Aug 27 - 29 San Diego, CA
Sep 4 - 6 Manchester, NH
Sep 4 - 6 Kirkland, WA
Oct 16 - 18 Markham, ON
Oct 21 - 23 Palm Bay, FL
Nov 13 - 15 Manchester, NH
Dec 11 - 13 Minneapolis, MN

Recertifications (Req. 24 mos.)

Jan 9 - 11 Markham, ON
Jan 14 - 16 Schaumburg, IL
Feb 11 - 13 Kirkland, WA
Mar 4 - 6 Manchester, NH
Mar 25 - 27 Markham, ON
Mar 27 - 29 Minneapolis, MN
May 20 - 22 Santa Clara, CA
May 29 - 31 Markham, ON
Jun 5 - 7 Manchester, NH
Jun 24 - 26 Palm Bay, FL
Jun 26 - 28 Schaumburg, IL
Jul 9 - 11 Minneapolis, MN
Aug 27 - 29 San Diego, CA
Sep 4 - 6 Manchester, NH
Sep 4 - 6 Kirkland, WA
Oct 16 - 18 Markham, ON
Oct 21 - 23 Palm Bay, FL
Nov 13 - 15 Manchester, NH
Dec 11 - 13 Minneapolis, MN

IPC-6012 Certified IPC Specialist

IPC-6012 "Qualification and Performance Specification for Rigid Printed Boards"

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

Jan 7 - 10 Palm Bay, FL
Jan 8 - 11 Santa Clara, CA
Jan 14 - 17 Manchester, NH
Mar 4 - 7 Markham, ON
Mar 11 - 14 Schaumburg, IL
Mar 11 - 14 Kirkland, WA
Apr 16 - 19 Manchester, NH
Apr 23 - 26 Minneapolis, MN
May 7 - 10 Anaheim, CA
Jun 10 - 13 Markham, ON
Jun 18 - 21 San Diego, CA
Aug 6 - 9 Manchester, NH
Aug 12 - 15 Santa Clara, CA
Aug 19 - 22 Palm Bay, FL
Sep 17 - 20 Markham, ON
Sep 24 - 27 Minneapolis, MN
Oct 1 - 4 Kirkland, WA
Oct 15 - 18 Schaumburg, IL
Nov 4 - 7 Anaheim, CA
Nov 18 - 21 Manchester, NH
Dec 3 - 6 San Diego, CA

Recertifications (Req. 24 mos.)

Jan 7 - 10 Palm Bay, FL
Jan 8 - 11 Santa Clara, CA
Jan 14 - 17 Manchester, NH
Mar 4 - 7 Markham, ON
Mar 11 - 14 Schaumburg, IL
Mar 11 - 14 Kirkland, WA
Apr 16 - 19 Manchester, NH
Apr 23 - 26 Minneapolis, MN
May 7 - 10 Anaheim, CA
Jun 10 - 13 Markham, ON
Jun 18 - 21 San Diego, CA
Aug 6 - 9 Manchester, NH
Aug 12 - 15 Santa Clara, CA
Aug 19 - 22 Palm Bay, FL
Sep 17 - 20 Markham, ON
Sep 24 - 27 Minneapolis, MN
Oct 1 - 4 Kirkland, WA
Oct 15 - 18 Schaumburg, IL
Nov 4 - 7 Anaheim, CA
Nov 18 - 21 Manchester, NH
Dec 3 - 6 San Diego, CA

IPC Certified Interconnect Designer

IPC-2221 "Generic Standard on Printed Board Design" IPC-2222 "Sectional Standard on Rigid Organic Printed Boards"

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.

Jan 31 - Feb 3 San Diego, CA
Feb 26 - Mar 1 Manchester, NH
Mar 5 - 8 Santa Clara, CA
Mar 19 - 22 Kirkland, WA
Apr 22 - 25 Schaumburg, IL
May 21 - 24 Pittsburgh, PA
Jun 18 - 21 Kirkland, WA
Aug 6 - 9 Baltimore, MD
Aug 26 - 29 Markham, ON
Sep 6 - 9 Santa Clara, CA
Oct 21 - 24 Anaheim, CA
Nov 5 - 8 Dallas, TX
Nov 9 - 12 Raleigh, NC

IPC Advanced Certified Interconnect Designer

IPC-2221 "Generic Standard on Printed Board Design" IPC-2222 "Sectional Standard on Rigid Organic Printed Boards"

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 31 - Feb 3 San Diego, CA
Apr 16 - 19 Markham, ON
Apr 26 - 29 Kirkland, WA
Sep 6 - 9 Santa Clara, CA
Sep 17 - 20 Schaumburg, IL
Oct 21 - 24 Anaheim, CA
Nov 9 - 12 Raleigh, NC
Dec 3 - 6 Manchester, NH

Dates and locations are subject to change. Please call to check current dates and availability. A minimum enrollment of seven (7) students is required for a class to be held.



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

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.

Jan 7 - 11	.....	Kansas City, MO
Jan 7 - 11	.....	Kirkland, WA
Jan 14 - 18	.....	Anaheim, CA
Jan 14 - 18	.....	Manchester, NH
Jan 14 - 18	.....	Markham, ON
Jan 14 - 18	.....	Pittsburgh, PA
Jan 21 - 25	.....	Santa Clara, CA
Jan 21 - 25	.....	Schaumburg, IL
Jan 21 - 25	.....	Rochester, NY
Jan 28 - Feb 1	.....	Minneapolis, MN
Jan 28 - Feb 1	.....	Watertown, CT
Jan 28 - Feb 1	.....	Palm Bay, FL
Jan 28 - Feb 1	.....	Binghamton, NY
Feb 4 - 8	.....	Syracuse, NY
Feb 11 - 15	.....	Manchester, NH
Feb 11 - 15	.....	Long Island, NY
Feb 25 - Mar 1	.....	Buffalo, NY
Feb 25 - Mar 1	.....	Ottawa, ON
Mar 18 - 22	.....	Manchester, NH
Mar 25 - 29	.....	San Diego, CA
Apr 1 - 5	.....	Schaumburg, IL
Apr 1 - 5	.....	Kansas City, MO
Apr 1 - 5	.....	Syracuse, NY
Apr 1 - 5	.....	Markham, ON
Apr 8 - 12	.....	Pittsburgh, PA
Apr 15 - 19	.....	Santa Clara, CA
Apr 15 - 19	.....	Minneapolis, MN
Apr 15 - 19	.....	Manchester, NH
Apr 15 - 19	.....	Akron, OH
Apr 22 - 26	.....	Anaheim, CA
Apr 22 - 26	.....	Baltimore, MD
Apr 22 - 26	.....	Rochester, NY
Apr 29 - May 3	.....	San Diego, CA
Apr 29 - May 3	.....	Ottawa, ON
May 6 - 10	.....	Schaumburg, IL
May 6 - 10	.....	Buffalo, NY
May 13 - 17	.....	Watertown, CT
May 13 - 17	.....	Manchester, NH
May 13 - 17	.....	Kirkland, WA
May 13 - 17	.....	Markham, ON
May 27 - 31	.....	Halifax, NS
Jun 10 - 14	.....	Manchester, NH
Jul 8 - 12	.....	Rochester, NY
Jul 8 - 12	.....	Pittsburgh, PA
Jul 15 - 18	.....	Minneapolis, MN
Jul 15 - 19	.....	San Diego, CA
Jul 15 - 19	.....	Manchester, NH
Jul 22 - 26	.....	Schaumburg, IL
Jul 22 - 26	.....	Ottawa, ON
Jul 22 - 26	.....	Binghamton, NY
Jul 29 - Aug 2	.....	Anaheim, CA
Jul 29 - Aug 2	.....	Markham, ON
Jul 29 - Aug 2	.....	Kirkland, WA
Aug 5 - 9	.....	Palm Bay, FL
Aug 5 - 9	.....	Buffalo, NY
Aug 12 - 16	.....	Baltimore, MD
Aug 12 - 16	.....	Kansas City, MO
Aug 12 - 16	.....	Manchester, NH
Aug 19 - 23	.....	Halifax, NS
Sep 9 - 13	.....	Syracuse, NY
Sep 16 - 20	.....	Anaheim, CA

Sep 16 - 20	.....	Manchester, NH
Sep 23 - 27	.....	Schaumburg, IL
Sep 23 - 27	.....	Markham, ON
Sep 30 - Oct 4	.....	Santa Clara, CA
Sep 30 - Oct 4	.....	Kansas City, MO
Oct 7 - 11	.....	Watertown, CT
Oct 7 - 11	.....	Palm Bay, FL
Oct 7 - 11	.....	Akron, OH
Oct 14 - 18	.....	Manchester, NH
Oct 14 - 18	.....	Pittsburgh, PA
Oct 21 - 25	.....	Binghamton, NY
Oct 21 - 25	.....	Rochester, NY
Oct 28 - Nov 1	.....	San Diego, CA
Oct 28 - Nov 1	.....	Minneapolis, MN
Nov 4 - 8	.....	Markham, ON
Nov 4 - 8	.....	Kirkland, WA
Nov 11 - 15	.....	Schaumburg, IL
Nov 11 - 15	.....	Long Island, NY
Nov 18 - 22	.....	Manchester, NH
Nov 18 - 22	.....	Buffalo, NY
Nov 18 - 22	.....	Ottawa, ON
Dec 9 - 13	.....	Anaheim, CA
Dec 9 - 13	.....	Watertown, CT
Dec 9 - 13	.....	Baltimore, MD
Dec 16 - 20	.....	Santa Clara, CA
Dec 16 - 20	.....	Manchester, NH

Recertifications

Jan 11	.....	Manchester, NH
Jan 17	.....	Schaumburg, IL
Jan 21	.....	Anaheim, CA
Jan 25	.....	Kansas City, MO
Feb 8	.....	Manchester, NH
Feb 22	.....	Markham, ON
Mar 15	.....	Manchester, NH
Mar 20	.....	San Diego, CA
Mar 29	.....	Watertown, CT
Apr 8	.....	Rochester, NY
Apr 12	.....	Schaumburg, IL
Apr 17	.....	Palm Bay, FL
Apr 26	.....	Manchester, NH
May 10	.....	Manchester, NH
May 31	.....	Santa Clara, CA
May 31	.....	Buffalo, NY
May 31	.....	Schaumburg, IL
Jun 5	.....	Kirkland, WA
Jun 21	.....	Manchester, NH
Jul 16	.....	Markham, ON
Jul 26	.....	Manchester, NH
Aug 9	.....	Anaheim, CA
Aug 16	.....	Schaumburg, IL
Aug 23	.....	Manchester, NH
Sep 3	.....	Manchester, NH
Sep 4	.....	San Diego, CA
Oct 2	.....	Minneapolis, MN
Oct 21	.....	Manchester, NH
Oct 25	.....	Watertown, CT
Nov 1	.....	Kirkland, WA
Nov 8	.....	Manchester, NH
Nov 22	.....	Markham, ON

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, 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.

Feb 1	.....	Peabody, MA
May 22	.....	Markham, ON
Sep 13	.....	Peabody, MA
Sep 23	.....	Baltimore, MD
Sep 23	.....	Minneapolis, MN
Oct 25	.....	Markham, ON
Nov 27	.....	Santa Clara, CA
Dec 19	.....	Schaumburg, IL

IDEA-STD-1010 Essentials

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

Develop an in-depth knowledge of the IDEA-STD-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.

Jan 24 - 25	.....	Anaheim, CA
Feb 21 - 22	.....	Baltimore, MD
Mar 18 - 19	.....	San Diego, CA
Mar 28 - 29	.....	Palm Bay, FL
Apr 8 - 9	.....	Schaumburg, IL
May 29 - 30	.....	Santa Clara, CA
Jun 6 - 7	.....	Peabody, MA
Aug 8 - 9	.....	San Diego, CA
Sep 3 - 4	.....	Long Island, NY
Oct 2 - 3	.....	Palm Bay, FL
Oct 7 - 8	.....	Peabody, MA
Dec 16 - 17	.....	San Diego, CA

Advanced Micro Hand Soldering Certification

Jan 3 - 4	.....	Manchester, NH
Apr 1 - 2	.....	Manchester, NH
Apr 10 - 11	.....	Schaumburg, IL
Jul 22 - 23	.....	Manchester, NH
Jul 31 - Aug 1	.....	Minneapolis, MN
Sep 30 - Oct 1	.....	Manchester, NH
Oct 1 - 2	.....	Schaumburg, IL

Component Identification Training

EPTAC's Component ID Training Program

Mar 15	.....	Manchester, NH
Jul 26	.....	Manchester, NH
Oct 4	.....	Manchester, NH

Crimp Terminations Certification

IPC/WHMA-A-620

"Requirements and

Acceptance for Cable and Wire Harness Assemblies"

EPTAC's Hand Crimp Termination Program

Feb 19	.....	Markham, ON
Mar 6	.....	Schaumburg, IL
Mar 15	.....	Kirkland, WA
Apr 5	.....	Manchester, NH
May 28	.....	Markham, ON
Jun 4	.....	Kirkland, WA
Aug 15	.....	Schaumburg, IL
Aug 16	.....	Markham, ON
Aug 23	.....	Manchester, NH
Oct 31	.....	Kirkland, WA
Nov 19	.....	Markham, ON
Dec 18	.....	Schaumburg, IL

Electrostatic Discharge Training

EPTAC's ESD Training Program

Jan 28	.....	Kirkland, WA
Jan 31	.....	Manchester, NH
Mar 5	.....	Schaumburg, IL
Mar 8	.....	Markham, ON
May 23	.....	Markham, ON
Jun 3	.....	Kirkland, WA
Jun 28	.....	Manchester, NH
Jul 17	.....	Markham, ON
Aug 14	Schaumburg, IL
Oct 11	Manchester, NH
Oct 22	Markham, ON
Dec 13	Kirkland, WA

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