



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 (CIT)

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.

IPC-A-610 CIT Certification

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

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

Jan 8 - 11	Jul 15 - 18
Jan 29 - Feb 1	Aug 5 - 8
Feb 19 - 22	Aug 26 - 29
Mar 11 - 14	Sep 16 - 19
Apr 1 - 4	Oct 7 - 10
Apr 22 - 25	Oct 28 - 31
May 13 - 16	Nov 18 - 21
Jun 3 - 6	Dec 9 - 12
Jun 24 - 27	

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

IPC-A-610 CIT Recertification

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

IPC-A-610 Interactive PCB Inspection Lab

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

Utilizes, lectures, visual acuity exercises, and physical assemblies to provide an experience in visually inspecting printed circuit assemblies.

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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TECHNICAL SUPPORT

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- Equipment Evaluation
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IPC-A-610 Certified IPC Specialist (CIS)

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

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

IPC-A-610 CIS Certification

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

IPC-A-610 CIS Recertification

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Jan 8 - 10	Buffalo, NY	Jul 15 - 17	Seattle, WA
Jan 15 - 17	San Diego, CA	Jul 22 - 24	Palm Bay, FL
Jan 15 - 17	Schaumburg, IL	Jul 22 - 24	Schaumburg, IL
Jan 15 - 17	Toronto, ON	Jul 29 - 31	Manchester, NH
Jan 16 - 18	Seattle, WA	Jul 29 - 31	Toronto, ON
Jan 22 - 24	Manchester, NH	Aug 5 - 7	San Jose, CA
Jan 22 - 24	Pittsburgh, PA	Aug 19 - 21	Minneapolis, MN
Jan 29 - 31	Palm Bay, FL	Aug 19 - 21	Manchester, NH
Feb 5 - 7	Kansas City, MO	Aug 26 - 28	Anaheim, CA
Feb 5 - 7	Portland, OR	Sep 9 - 11	Manchester, NH
Feb 12 - 14	Manchester, NH	Sep 9 - 11	Portland, OR
Feb 12 - 14	San Jose, CA	Sep 10 - 12	Syracuse, NY
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Mar 4 - 6	Manchester, NH	Sep 16 - 18	Watertown, CT
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May 6 - 8	Seattle, WA	Nov 18 - 20	Seattle, WA
May 13 - 15	San Diego, CA	Nov 20 - 22	Manchester, NH
May 20 - 22	Minneapolis, MN	Dec 2 - 4	Binghamton, NY
May 20 - 22	Buffalo, NY	Dec 2 - 4	Pittsburgh, PA
May 27 - 29	Toronto, ON	Dec 2 - 4	San Jose, CA
May 28 - 30	Manchester, NH	Dec 16 - 18	Manchester, NH
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Jun 10 - 12	Long Island, NY		
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IPC-A-610 Certified Standards Expert (CSE)

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

Become a subject matter expert in IPC-A-610.

IPC-A-610 CSE Certification

Jan 8 - 11 Watertown, CT	Jul 15 - 18 Seattle, WA
Jan 8 - 11 Buffalo, NY	Jul 22 - 25 Palm Bay, FL
Jan 15 - 18 San Diego, CA	Jul 22 - 25 Schaumburg, IL
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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-610 Interactive PCB Inspection Lab (CIT or CIS Option)

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

Utilizes, lectures, visual acuity exercises, and physical assemblies to provide an experience in visually inspecting printed circuit assemblies.

IPC-A-610 Interactive Inspection Labs

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

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.



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

J-STD-001 Certified IPC Trainer (CIT)

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.

J-STD-001 CIT Certification

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

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

FOR LECTURE AND EXAM ONLY*

Feb 19 - 22
Jun 3 - 6
Oct 21 - 24

Challenge Test IN-PERSON Manchester, NH

Jan 12	Mar 1	Jun 7	Sep 27
Jan 26	Apr 12	Jul 1	Oct 11
Feb 16	May 10	Aug 9	Nov 8
			Nov 22

J-STD-001 CIT Space Addendum Certification

Jan 12	Toronto, ON	Sep 13	Toronto, ON
Jan 19	Watertown, CT	Sep 30	Manchester, NH
Jan 29	Manchester, NH	Nov 1	Anaheim, CA
Mar 8	Manchester, NH	Nov 15	Manchester, NH
Apr 19	Seattle, WA	Nov 22	Toronto, ON
Apr 26	Watertown, CT	Dec 23	Manchester, NH

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 17	Oct 25
May 3	Nov 8
Jun 21	Dec 20

J-STD-001 CIT Recertification

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

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

FOR LECTURE AND EXAM ONLY*

Feb 14 - 15	Oct 16 - 17
Jun 19 - 20	Dec 18 - 19

Challenge Test IN-PERSON Manchester, NH

Jan 12	Mar 1	Jun 7	Sep 27
Jan 26	Apr 12	Jul 1	Oct 11
Feb 16	May 10	Aug 9	Nov 8
			Nov 22

J-STD-001 CIT Space Addendum Recertification

Jan 12	Toronto, ON	Sep 13	Toronto, ON
Jan 19	Watertown, CT	Sep 30	Manchester, NH
Jan 29	Manchester, NH	Nov 1	Anaheim, CA
Mar 8	Manchester, NH	Nov 15	Manchester, NH
Apr 19	Seattle, WA	Nov 22	Toronto, ON
Apr 26	Watertown, CT	Dec 23	Manchester, NH

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 17	Oct 25
May 3	Nov 8
Jun 21	Dec 20

***Important Note: J-STD-001 ON-LINE CLASS DATES ARE FOR THE LECTURE AND EXAM ONLY.** Attendees will need to travel to a confirmed, in-person J-STD-001 class to complete their workmanship requirements with an EPTAC Instructor.

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.



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

J-STD-001 Certified IPC Specialist (CIS)

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.

J-STD-001 CIS Certification

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

J-STD-001 CIS Recertification

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

J-STD-001 CIS Space Addendum Certification

Jan 12	Toronto, ON	Sep 13	Toronto, ON
Jan 19	Watertown, CT	Sep 30	Manchester, NH
Jan 29	Manchester, NH	Nov 1	Anaheim, CA
Mar 8	Manchester, NH	Nov 15	Manchester, NH
Apr 19	Seattle, WA	Nov 22	Toronto, ON
Apr 26	Watertown, CT	Dec 23	Manchester, NH
May 1	Manchester, NH		
May 3	Rochester, NY		
May 3	Toronto, ON		
May 10	Manchester, NH		
Jul 12	Manchester, NH		
Jul 19	Toronto, ON		
Aug 2	Portland, OR		
Aug 2	Watertown, CT		

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 17	Oct 25
May 3	Nov 8
Jun 21	Dec 20

J-STD-001 CIS Space Addendum Recertification

Jan 12	Toronto, ON	Sep 13	Toronto, ON
Jan 19	Watertown, CT	Sep 30	Manchester, NH
Jan 29	Manchester, NH	Nov 1	Anaheim, CA
Mar 8	Manchester, NH	Nov 15	Manchester, NH
Apr 19	Seattle, WA	Nov 22	Toronto, ON
Apr 26	Watertown, CT	Dec 23	Manchester, NH
May 1	Manchester, NH		
May 3	Rochester, NY		
May 3	Toronto, ON		
May 10	Manchester, NH		
Jul 12	Manchester, NH		
Jul 19	Toronto, ON		
Aug 2	Portland, OR		
Aug 2	Watertown, CT		

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 17	Oct 25
May 3	Nov 8
Jun 21	Dec 20

Challenge Test IN-PERSON Manchester, NH

Jan 12	Mar 1	Jun 7	Sep 27
Jan 26	Apr 12	Jul 1	Oct 11
Feb 16	May 10	Aug 9	Nov 8
			Nov 22

Challenge Test IN-PERSON Manchester, NH

Jan 12	Mar 1	Jun 7	Sep 27
Jan 26	Apr 12	Jul 1	Oct 11
Feb 16	May 10	Aug 9	Nov 8
			Nov 22

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.



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

J-STD-001 Certified Standards Expert (CSE)

J-STD-001 "Requirements for Soldered Electrical & Electronic Assemblies"

Become a subject matter expert in J-STD-001.

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.

J-STD-001 CSE Certification

Jan 8 - 12	Portland, OR
Jan 8 - 12	San Jose, CA
Jan 15 - 19	Buffalo, NY
Jan 22 - 26	Manchester, NH
Jan 29 - Feb 2	Anaheim, CA
Jan 29 - Feb 2	Rochester, NY
Jan 29 - Feb 2	Toronto, ON
Feb 5 - 9	Schaumburg, IL
Feb 12 - 16	Watertown, CT
Feb 26 - Mar 1	Ottawa, ON
Feb 26 - Mar 1	Palm Bay, FL
Feb 26 - Mar 1	San Diego, CA
Feb 26 - Mar 1	Seattle, WA
Mar 11 - 15	Kansas City, MO
Mar 18 - 22	Anaheim, CA
Mar 18 - 22	Manchester, NH
Mar 18 - 22	Minneapolis, MN
Mar 18 - 22	Pittsburgh, PA
Mar 18 - 22	San Jose, CA
Apr 8 - 12	Buffalo, NY
Apr 8 - 12	Seattle, WA
Apr 8 - 12	Toronto, ON
Apr 22 - 26	Rochester, NY
Apr 29 - May 3	Binghamton, NY
Apr 29 - May 3	Portland, OR
May 6 - 10	Anaheim, CA
May 6 - 10	Long Island, NY
May 6 - 10	San Jose, CA
May 13 - 17	Schaumburg, IL
May 20 - 24	Manchester, NH
May 20 - 24	Palm Bay, FL
May 20 - 24	Watertown, CT
Jun 3 - 7	San Diego, CA
Jun 17 - 21	Minneapolis, MN
Jun 17 - 21	Toronto, ON
Jun 24 - 28	Seattle, WA
Jul 8 - 12	San Jose, CA
Jul 15 - 19	Kansas City, MO

Jul 15 - 19	Manchester, NH
Jul 29 - Aug 2	Anaheim, CA
Jul 29 - Aug 2	Buffalo, NY
Aug 12 - 16	Ottawa, ON
Aug 12 - 16	Palm Bay, FL
Aug 12 - 16	San Diego, CA
Aug 12 - 16	Seattle, WA
Aug 19 - 23	Watertown, CT
Aug 26 - 30	Pittsburgh, PA
Aug 26 - 30	Rochester, NY
Aug 26 - 30	Toronto, ON
Sep 9 - 13	San Jose, CA
Sep 9 - 13	Schaumburg, IL
Sep 16 - 20	Manchester, NH
Sep 23 - 27	Minneapolis, MN
Sep 30 - Oct 4	Portland, OR
Oct 7 - 11	Binghamton, NY
Oct 7 - 11	Toronto, ON
Oct 14 - 18	Seattle, WA
Oct 21 - 25	Anaheim, CA
Nov 4 - 8	Manchester, NH
Nov 4 - 8	San Jose, CA
Nov 11 - 15	Palm Bay, FL
Nov 11 - 15	San Diego, CA
Nov 11 - 15	Watertown, CT
Nov 18 - 22	Buffalo, NY
Nov 25 - 29	Ottawa, ON
Dec 2 - 6	Seattle, WA
Dec 16 - 20	Kansas City, MO
Dec 16 - 20	Long Island, NY
Dec 16 - 20	Schaumburg, IL
Dec 16 - 20	Toronto, ON

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

Feb 19 - 22	Oct 21 - 24
Jun 3 - 6	

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 20	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

J-STD-001 CSE Space Addendum Certification

Jan 12	Toronto, ON
Jan 19	Watertown, CT
Jan 29	Manchester, NH
Mar 8	Manchester, NH
Apr 19	Seattle, WA
Apr 26	Watertown, CT
May 1	Manchester, NH
May 3	Rochester, NY
May 3	Toronto, ON
May 10	Manchester, NH
Jul 12	Manchester, NH
Jul 19	Toronto, ON
Aug 2	Portland, OR
Aug 2	Watertown, CT

Sep 13	Toronto, ON
Sep 30	Manchester, NH
Nov 1	Anaheim, CA
Nov 15	Manchester, NH
Nov 22	Toronto, ON
Dec 23	Manchester, NH

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 7	Oct 25
May 3	Nov 8
Jun 21	Dec 20

J-STD-001 CSE Recertification

Jan 4 - 5	Manchester, NH
Jan 10 - 11	Palm Bay, FL
Jan 10 - 11	San Diego, CA
Jan 10 - 11	Toronto, ON
Jan 17 - 18	Watertown, CT
Jan 18 - 19	Kansas City, MO
Jan 24 - 25	Anaheim, CA
Jan 24 - 25	Minneapolis, MN
Jan 24 - 25	Schaumburg, IL
Jan 31 - Feb 1	Long Island, NY
Feb 7 - 8	San Jose, CA
Feb 14 - 15	Rochester, NY
Feb 21 - 22	Seattle, WA
Feb 29 - Mar 1	Akron, OH
Mar 13 - 14	Binghamton, NY
Mar 13 - 14	Manchester, NH
Mar 13 - 14	Palm Bay, FL
Mar 28 - 29	Ottawa, ON
Apr 10 - 11	Schaumburg, IL
Apr 17 - 18	Seattle, WA
Apr 24 - 25	San Jose, CA
Apr 24 - 25	Watertown, CT
May 1 - 2	Anaheim, CA
May 1 - 2	Rochester, NY
May 1 - 2	Toronto, ON
May 8 - 9	Manchester, NH
May 9 - 10	Buffalo, NY
May 16 - 17	Minneapolis, MN
Jun 5 - 6	San Jose, CA
Jun 12 - 13	San Diego, CA
Jun 19 - 20	Binghamton, NY
Jun 19 - 20	Seattle, WA

Jun 26 - 27	Long Island, NY
Jul 10 - 11	Manchester, NH
Jul 17 - 18	Toronto, ON
Jul 24 - 25	Rochester, NY
Jul 31 - Aug 1	Portland, OR
Jul 31 - Aug 1	Watertown, CT
Aug 14 - 15	San Jose, CA
Aug 15 - 16	Minneapolis, MN
Aug 21 - 22	Schaumburg, IL
Aug 28 - 29	Kansas City, MO
Aug 28 - 29	Palm Bay, FL
Sep 5 - 6	Manchester, NH
Sep 11 - 12	Toronto, ON
Oct 3 - 4	Buffalo, NY
Oct 9 - 10	Manchester, NH
Oct 9 - 10	San Diego, CA
Oct 23 - 24	Seattle, WA
Oct 30 - 31	Anaheim, CA
Oct 30 - 31	San Jose, CA
Nov 6 - 7	Schaumburg, IL
Nov 6 - 7	Watertown, CT
Nov 13 - 14	Manchester, NH
Nov 20 - 21	Minneapolis, MN
Nov 20 - 21	Rochester, NY
Nov 20 - 21	Toronto, ON

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

Feb 14 - 15	Oct 16 - 17
Jun 19 - 20	Dec 18 - 19

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

J-STD-001 CSE Space Addendum Recertification

Jan 12	Toronto, ON
Jan 19	Watertown, CT
Jan 29	Manchester, NH
Mar 8	Manchester, NH
Apr 19	Seattle, WA
Apr 26	Watertown, CT
May 1	Manchester, NH
May 3	Rochester, NY
May 3	Toronto, ON
May 10	Manchester, NH
Jul 12	Manchester, NH
Jul 19	Toronto, ON
Aug 2	Portland, OR
Aug 2	Watertown, CT

Sep 13	Toronto, ON
Sep 30	Manchester, NH
Nov 1	Anaheim, CA
Nov 15	Manchester, NH
Nov 22	Toronto, ON
Dec 23	Manchester, NH

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 7	Oct 25
May 3	Nov 8
Jun 21	Dec 20



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

HARNESST 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

J-STD-001 Space Addendum (CIT, CIS, CSE)

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.

J-STD-001 CIT Space Addendum Certification and Recertification

Jan 12	Toronto, ON	Sep 13	Toronto, ON
Jan 19	Watertown, CT	Sep 30	Manchester, NH
Jan 29	Manchester, NH	Nov 1	Anaheim, CA
Mar 8	Manchester, NH	Nov 15	Manchester, NH
Apr 19	Seattle, WA	Nov 22	Toronto, ON
Apr 26	Watertown, CT	Dec 23	Manchester, NH

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 17	Oct 25
May 3	Nov 8
Jun 21	Dec 20

Challenge Test IN-PERSON Manchester, NH

Jan 12	Mar 1	Jun 7	Sep 27
Jan 26	Apr 12	Jul 1	Oct 11
Feb 16	May 10	Aug 9	Nov 8
			Nov 22

J-STD-001 CIS Space Addendum Certification and Recertification

Jan 12	Toronto, ON	Sep 13	Toronto, ON
Jan 19	Watertown, CT	Sep 30	Manchester, NH
Jan 29	Manchester, NH	Nov 1	Anaheim, CA
Mar 8	Manchester, NH	Nov 15	Manchester, NH
Apr 19	Seattle, WA	Nov 22	Toronto, ON
Apr 26	Watertown, CT	Dec 23	Manchester, NH

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 17	Oct 25
May 3	Nov 8
Jun 21	Dec 20

Challenge Test IN-PERSON Manchester, NH

Jan 12	Mar 1	Jun 7	Sep 27
Jan 26	Apr 12	Jul 1	Oct 11
Feb 16	May 10	Aug 9	Nov 8
			Nov 22

J-STD-001 CSE Space Addendum Certification and Recertification

Jan 12	Toronto, ON	Sep 13	Toronto, ON
Jan 19	Watertown, CT	Sep 30	Manchester, NH
Jan 29	Manchester, NH	Nov 1	Anaheim, CA
Mar 8	Manchester, NH	Nov 15	Manchester, NH
Apr 19	Seattle, WA	Nov 22	Toronto, ON
Apr 26	Watertown, CT	Dec 23	Manchester, NH

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

Jan 19	Jul 19
Feb 23	Aug 16
Mar 8	Sep 4
Apr 17	Oct 25
May 3	Nov 8
Jun 21	Dec 20

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

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.



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 IPC Trainer (CIT)

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.

IPC-A-620 CIT Certification

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

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

Jan 15 - 18
Feb 5 - 8
Feb 26 - 29
Mar 18 - 21
Apr 8 - 11
Apr 29 - May 2
May 20 - 23
Jun 10 - 13
Jul 8 - 11
Jul 29 - Aug 1
Aug 19 - 22
Sep 9 - 12
Sep 30 - Oct 3
Oct 21 - 24
Nov 11 - 14
Dec 2 - 5

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

IPC-A-620 CIT Recertification

Jan 3 - 4 Toronto, ON
Feb 26 - 27 Manchester, NH
Feb 27 - 28 Schaumburg, IL
May 2 - 3 Manchester, NH
May 16 - 17 Toronto, ON
Jul 29 - 30 Schaumburg, IL
Aug 22 - 23 Manchester, NH
Sep 30 - Oct 1 Toronto, ON
Nov 18 - 19 Manchester, NH
Dec 23 - 24 Toronto, ON

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

Jan 4 - 5
Mar 6 - 7
May 30 - 31
Jul 17 - 18
Sep 5 - 6
Nov 6 - 7

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

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.



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 IPC Specialist (CIS)

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

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

IPC-A-620 CIS Certification

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

Aug 5 - 8 Portland, OR
 Aug 5 - 8 San Diego, CA
 Aug 12 - 15 Schaumburg, IL
 Aug 19 - 22 Anaheim, CA
 Aug 19 - 22 Seattle, WA
 Aug 19 - 22 Toronto, ON
 Aug 26 - 29 Manchester, NH
 Sep 9 - 12 Minneapolis, MN
 Sep 10 - 13 Pittsburgh, PA
 Sep 16 - 19 Akron, OH
 Sep 16 - 19 Halifax, NS
 Sep 16 - 19 Manchester, NH
 Sep 16 - 19 San Jose, CA
 Sep 23 - 26 Buffalo, NY
 Sep 23 - 26 Palm Bay, FL
 Sep 20 - Oct 3 Binghamton, NY
 Sep 30 - Oct 3 Long Island, NY
 Oct 7 - 10 Manchester, NH
 Oct 7 - 10 Rochester, NY
 Oct 7 - 10 Schaumburg, IL
 Oct 7 - 10 Seattle, WA
 Oct 14 - 17 Kansas City, MO
 Oct 14 - 17 San Diego, CA
 Oct 21 - 24 Watertown, CT
 Oct 28 - 31 Manchester, NH
 Oct 28 - 31 Portland, OR
 Oct 28 - 31 Syracuse, NY
 Oct 28 - 31 Toronto, ON
 Nov 4 - 7 Anaheim, CA
 Nov 4 - 7 Ottawa, ON
 Nov 11 - 14 Manchester, NH
 Nov 11 - 14 San Jose, CA
 Nov 18 - 21 Atlanta, GA
 Dec 2 - 5 Manchester, NH
 Dec 2 - 5 Toronto, ON
 Dec 3 - 6 Minneapolis, MN
 Dec 9 - 12 Palm Bay, FL
 Dec 9 - 12 Schaumburg, IL
 Dec 9 - 12 Seattle, WA

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

Jan 15 - 18
 Feb 5 - 8
 Feb 26 - 29
 Mar 18 - 21
 Apr 8 - 11
 Apr 29 - May 2
 May 20 - 23
 Jun 10 - 13
 Jul 8 - 11
 Jul 29 - Aug 1
 Aug 19 - 22
 Sep 9 - 12
 Sep 30 - Oct 3
 Oct 21 - 24
 Nov 11 - 14
 Dec 2 - 5

Challenge Test

IN-PERSON Manchester, NH

Jan 12 Jul 1
 Jan 26 Aug 9
 Feb 16 Sep 27
 Mar 1 Oct 11
 Apr 12 Nov 8
 May 10 Nov 22
 Jun 7

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

Jan 10 May 15 Sep 18
 Jan 24 May 29 Oct 2
 Feb 7 Jun 12 Oct 16
 Feb 21 Jun 26 Oct 30
 Mar 6 Jul 10 Nov 13
 Mar 20 Jul 24 Nov 25
 Apr 3 Aug 7 Dec 11
 Apr 17 Aug 21 Dec 23
 May 1 Sep 4

IPC-A-620 CIS Recertification

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

Aug 5 - 8 Portland, OR
 Aug 5 - 8 San Diego, CA
 Aug 12 - 15 Schaumburg, IL
 Aug 19 - 22 Anaheim, CA
 Aug 19 - 22 Seattle, WA
 Aug 19 - 22 Toronto, ON
 Aug 26 - 29 Manchester, NH
 Sep 9 - 12 Minneapolis, MN
 Sep 10 - 13 Binghamton, PA
 Sep 16 - 19 Akron, OH
 Sep 16 - 19 Halifax, NS
 Sep 16 - 19 Manchester, NH
 Sep 16 - 19 San Jose, CA
 Sep 23 - 26 Buffalo, NY
 Sep 23 - 26 Palm Bay, FL
 Sep 20 - Oct 3 Binghamton, NY
 Sep 30 - Oct 3 Long Island, NY
 Oct 7 - 10 Manchester, NH
 Oct 7 - 10 Rochester, NY
 Oct 7 - 10 Schaumburg, IL
 Oct 7 - 10 Seattle, WA
 Oct 14 - 17 Kansas City, MO
 Oct 14 - 17 San Diego, CA
 Oct 21 - 24 Watertown, CT
 Oct 28 - 31 Manchester, NH
 Oct 28 - 31 Portland, OR
 Oct 28 - 31 Syracuse, NY
 Oct 28 - 31 Toronto, ON
 Nov 4 - 7 Anaheim, CA
 Nov 4 - 7 Ottawa, ON
 Nov 11 - 14 Manchester, NH
 Nov 11 - 14 San Jose, CA
 Nov 18 - 21 Atlanta, GA
 Dec 2 - 5 Manchester, NH
 Dec 2 - 5 Toronto, ON
 Dec 3 - 6 Minneapolis, MN
 Dec 9 - 12 Palm Bay, FL
 Dec 9 - 12 Schaumburg, IL
 Dec 9 - 12 Seattle, WA

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

Jan 15 - 18
 Feb 5 - 8
 Feb 26 - 29
 Mar 18 - 21
 Apr 8 - 11
 Apr 29 - May 2
 May 20 - 23
 Jun 10 - 13
 Jul 8 - 11
 Jul 29 - Aug 1
 Aug 19 - 22
 Sep 9 - 12
 Sep 30 - Oct 3
 Oct 21 - 24
 Nov 11 - 14
 Dec 2 - 5

Challenge Test

IN-PERSON Manchester, NH

Jan 12 Jul 1
 Jan 26 Aug 9
 Feb 16 Sep 27
 Mar 1 Oct 11
 Apr 12 Nov 8
 May 10 Nov 22
 Jun 7

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

Jan 10 May 15 Sep 18
 Jan 24 May 29 Oct 2
 Feb 7 Jun 12 Oct 16
 Feb 21 Jun 26 Oct 30
 Mar 6 Jul 10 Nov 13
 Mar 20 Jul 24 Nov 25
 Apr 3 Aug 7 Dec 11
 Apr 17 Aug 21 Dec 23
 May 1 Sep 4



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

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

Jan 15 - 18
Feb 5 - 8
Feb 26 - 29
Mar 18 - 21
Apr 8 - 11
Apr 29 - May 2
May 20 - 23
Jun 10 - 13
Jul 8 - 11
Jul 29 - Aug 1
Aug 19 - 22
Sep 9 - 12
Sep 30 - Oct 3
Oct 21 - 24
Nov 11 - 14
Dec 2 - 5

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

IPC-A-620 CSE Recertification

Jan 3 - 4 Toronto, ON
Feb 26 - 27 Manchester, NH
Feb 27 - 28 Schaumburg, IL
May 2 - 3 Manchester, NH
May 16 - 17 Toronto, ON
Jul 29 - 30 Schaumburg, IL
Aug 22 - 23 Manchester, NH
Sep 30 - Oct 1 Toronto, ON
Nov 18 - 19 Manchester, NH
Dec 23 - 24 Toronto, ON

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

Jan 4 - 5
Mar 6 - 7
May 30 - 31
Jul 17 - 18
Sep 5 - 6
Nov 6 - 7

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

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.

ALSO AVAILABLE

IPC-A-620 Hands-on Lab

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



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 Hands-on Labs

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

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

620 Hands-on Labs (CIT or CIS Option)

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

ALSO AVAILABLE

Crimp Terminations Certification

- Aug 16 Manchester, NH
- Dec 30 Manchester, NH

Crimp Terminations Recertification

- Aug 16 Manchester, NH
- Dec 30 Manchester, NH

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.



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-600 Certified IPC Trainer (CIT)

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.

IPC-A-600 CIT Certification

Feb 12 - 14 . . . Toronto, ON
 Mar 25 - 27 . . . Schaumburg, IL
 May 8 - 10 . . . Toronto, ON
 Jun 10 - 12 . . . Manchester, NH
 Jun 17 - 19 . . . Schaumburg, IL
 Aug 5 - 7 . . . Toronto, ON
 Nov 27 - 29 . . . Toronto, ON
 Dec 3 - 5 . . . Manchester, NH

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

Jan 2 - 4
 Mar 18 - 20
 May 6 - 8
 Jul 1 - 3
 Sep 4 - 6
 Nov 4 - 6

IPC-A-600 CIT Recertification

Feb 12 - 14 . . . Toronto, ON
 Mar 25 - 27 . . . Schaumburg, IL
 May 8 - 10 . . . Toronto, ON
 Jun 10 - 12 . . . Manchester, NH
 Jun 17 - 19 . . . Schaumburg, IL
 Aug 5 - 7 . . . Toronto, ON
 Nov 27 - 29 . . . Toronto, ON
 Dec 3 - 5 . . . Manchester, NH

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

Jan 2 - 4
 Mar 18 - 20
 May 6 - 8
 Jul 1 - 3
 Sep 4 - 6
 Nov 4 - 6

Challenge Test

IN-PERSON Manchester, NH

Jan 12 Jul 1
 Jan 26 Aug 9
 Feb 16 Sep 27
 Mar 1 Oct 11
 Apr 12 Nov 8
 May 10 Nov 22
 Jun 7

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

Jan 10 May 15 Sep 18
 Jan 24 May 29 Oct 2
 Feb 7 Jun 12 Oct 16
 Feb 21 Jun 26 Oct 30
 Mar 6 Jul 10 Nov 13
 Mar 20 Jul 24 Nov 25
 Apr 3 Aug 7 Dec 11
 Apr 17 Aug 21 Dec 23
 May 1 Sep 4

Challenge Test

IN-PERSON Manchester, NH

Jan 12 Jul 1
 Jan 26 Aug 9
 Feb 16 Sep 27
 Mar 1 Oct 11
 Apr 12 Nov 8
 May 10 Nov 22
 Jun 7

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

Jan 10 May 15 Sep 18
 Jan 24 May 29 Oct 2
 Feb 7 Jun 12 Oct 16
 Feb 21 Jun 26 Oct 30
 Mar 6 Jul 10 Nov 13
 Mar 20 Jul 24 Nov 25
 Apr 3 Aug 7 Dec 11
 Apr 17 Aug 21 Dec 23
 May 1 Sep 4

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.



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-600 Certified IPC Specialist (CIS)

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

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

IPC-A-600 CIS Certification

Feb 12 - 14 . . . Toronto, ON
 Mar 25 - 27 . . . Schaumburg, IL
 May 8 - 10 . . . Toronto, ON
 Jun 10 - 12 . . . Manchester, NH
 Jun 17 - 19 . . . Schaumburg, IL
 Aug 5 - 7 . . . Toronto, ON
 Nov 27 - 29 . . . Toronto, ON
 Dec 3 - 5 . . . Manchester, NH

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

Jan 2 - 4
 Mar 18 - 20
 May 6 - 8
 Jul 1 - 3
 Sep 4 - 6
 Nov 4 - 6

IPC-A-600 CIS Recertification

Feb 12 - 14 . . . Toronto, ON
 Mar 25 - 27 . . . Schaumburg, IL
 May 8 - 10 . . . Toronto, ON
 Jun 10 - 12 . . . Manchester, NH
 Jun 17 - 19 . . . Schaumburg, IL
 Aug 5 - 7 . . . Toronto, ON
 Nov 27 - 29 . . . Toronto, ON
 Dec 3 - 5 . . . Manchester, NH

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

Jan 2 - 4
 Mar 18 - 20
 May 6 - 8
 Jul 1 - 3
 Sep 4 - 6
 Nov 4 - 6

Challenge Test

IN-PERSON Manchester, NH

Jan 12 Jul 1
 Jan 26 Aug 9
 Feb 16 Sep 27
 Mar 1 Oct 11
 Apr 12 Nov 8
 May 10 Nov 22
 Jun 7

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

Jan 10 May 15 Sep 18
 Jan 24 May 29 Oct 2
 Feb 7 Jun 12 Oct 16
 Feb 21 Jun 26 Oct 30
 Mar 6 Jul 10 Nov 13
 Mar 20 Jul 24 Nov 25
 Apr 3 Aug 7 Dec 11
 Apr 17 Aug 21 Dec 23
 May 1 Sep 4

Challenge Test

IN-PERSON Manchester, NH

Jan 12 Jul 1
 Jan 26 Aug 9
 Feb 16 Sep 27
 Mar 1 Oct 11
 Apr 12 Nov 8
 May 10 Nov 22
 Jun 7

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

Jan 10 May 15 Sep 18
 Jan 24 May 29 Oct 2
 Feb 7 Jun 12 Oct 16
 Feb 21 Jun 26 Oct 30
 Mar 6 Jul 10 Nov 13
 Mar 20 Jul 24 Nov 25
 Apr 3 Aug 7 Dec 11
 Apr 17 Aug 21 Dec 23
 May 1 Sep 4

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.



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-600 Certified Standards Expert (CSE)

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

Become a subject matter expert in IPC-A-600.

IPC-A-600 CSE Certification

Feb 12 - 14 ... Toronto, ON
 Mar 25 - 27 ... Schaumburg, IL
 May 8 - 10 ... Toronto, ON
 Jun 10 - 12 ... Manchester, NH
 Jun 17 - 19 ... Schaumburg, IL
 Aug 5 - 7 ... Toronto, ON
 Nov 27 - 29 ... Toronto, ON
 Dec 3 - 5 ... Manchester, NH

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

Jan 2 - 4
 Mar 18 - 20
 May 6 - 8
 Jul 1 - 3
 Sep 4 - 6
 Nov 4 - 6

IPC-A-600 CSE Recertification

Feb 12 - 14 ... Toronto, ON
 Mar 25 - 27 ... Schaumburg, IL
 May 8 - 10 ... Toronto, ON
 Jun 10 - 12 ... Manchester, NH
 Jun 17 - 19 ... Schaumburg, IL
 Aug 5 - 7 ... Toronto, ON
 Nov 27 - 29 ... Toronto, ON
 Dec 3 - 5 ... Manchester, NH

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

Jan 2 - 4
 Mar 18 - 20
 May 6 - 8
 Jul 1 - 3
 Sep 4 - 6
 Nov 4 - 6

Challenge Test

IN-PERSON Manchester, NH

Jan 12
 Jan 26
 Feb 16
 Mar 1
 Apr 12
 May 10
 Jun 7

Jul 1
 Aug 9
 Sep 27
 Oct 11
 Nov 8
 Nov 22

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

Jan 10
 Jan 24
 Feb 7
 Feb 21
 Mar 6
 Mar 20
 Apr 3
 Apr 17
 May 1

May 15
 May 29
 Jun 12
 Jun 26
 Jul 10
 Jul 24
 Aug 7
 Aug 21
 Sep 4

Challenge Test

IN-PERSON Manchester, NH

Jan 12
 Jan 26
 Feb 16
 Mar 1
 Apr 12
 May 10
 Jun 7

Jul 1
 Aug 9
 Sep 27
 Oct 11
 Nov 8
 Nov 22

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

Jan 10
 Jan 24
 Feb 7
 Feb 21
 Mar 6
 Mar 20
 Apr 3
 Apr 17
 May 1

May 15
 May 29
 Jun 12
 Jun 26
 Jul 10
 Jul 24
 Aug 7
 Aug 21
 Sep 4

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.



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-7711/7721 Certified IPC Trainer (CIT)

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.

IPC-7711/7721 CIT Certification

Jan 22 - 26 . . . San Jose	Jul 8 - 12 Schaumburg, IL
Jan 22 - 26 . . . Toronto, ON	Jul 15 - 18 Palm Bay, FL
Feb 12 - 16 Manchester, NH	Aug 12 - 16 Manchester, NH
Feb 19 - 22 Palm Bay, FL	Aug 26 - 30 San Jose, CA
Feb 19 - 23 San Jose, CA	Oct 7 - 11 Watertown, CT
Mar 4 - 8 Schaumburg, IL	Oct 21 - 25 San Jose, CA
Mar 4 - 8 Watertown, CT	Oct 21 - 25 Toronto, ON
Mar 11 - 15 Toronto, ON	Oct 28 - Nov 1 Manchester, NH
Apr 8 - 12 San Jose, CA	Oct 28 - Nov 1 Schaumburg, IL
Apr 22 - 26 Manchester, NH	Dec 2 - 6 Manchester, NH
Apr 22 - 26 Minneapolis, MN	Dec 9 - 13 Minneapolis, MN
Jun 3 - 7 Manchester, NH	Dec 9 - 13 Toronto, ON
Jun 10 - 14 San Jose, CA	Dec 16 - 19 Palm Bay, FL
Jun 10 - 14 Toronto, ON	Dec 16 - 20 San Jose, CA

IPC-7711/7721 CIT Recertification

Jan 30 - 31 Manchester, NH	Jul 22 - 23 Minneapolis, MN
Feb 5 - 6 Palm Bay, FL	Jul 29 - 30 San Jose, CA
Feb 15 - 16 Toronto, ON	Aug 8 - 9 Toronto, ON
Feb 29 - Mar 1 Schaumburg, IL	Aug 19 - 20 Manchester, NH
Mar 7 - 8 Manchester, NH	Sep 4 - 5 Schaumburg, IL
Mar 21 - 22 Minneapolis, MN	Sep 23 - 24 Manchester, NH
Mar 27 - 28 San Jose, CA	Oct 2 - 3 Manchester, NH
Apr 1 - 2 Manchester, NH	Oct 3 - 4 San Jose, CA
May 2 - 3 Schaumburg, IL	Nov 18 - 19 Palm Bay, FL
May 6 - 7 Toronto, ON	Nov 25 - 26 Manchester, NH
May 30 - 31 Manchester, NH	Nov 25 - 26 Schaumburg, IL
Jun 10 - 11 Palm Bay, FL	Nov 25 - 26 Toronto, ON
Jun 11 - 12 Watertown, CT	Nov 25 - 26 Watertown, CT
Jul 1 - 2 Manchester, NH	

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.



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-7711/7721 Certified IPC Specialist (CIS)

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

IPC-7711/7721 CIS Certification

Jan 22 - 26 . . . San Jose	Jul 8 - 12 Schaumburg, IL
Jan 22 - 26 . . . Toronto, ON	Jul 15 - 18 Palm Bay, FL
Feb 12 - 16 . . . Manchester, NH	Aug 12 - 16 . . . Manchester, NH
Feb 19 - 22 . . . Palm Bay, FL	Aug 26 - 30 . . . San Jose, CA
Feb 19 - 23 . . . San Jose, CA	Oct 7 - 11 Watertown, CT
Mar 4 - 8 Schaumburg, IL	Oct 21 - 25 . . . San Jose, CA
Mar 4 - 8 Watertown, CT	Oct 21 - 25 . . . Toronto, ON
Mar 11 - 15 . . . Toronto, ON	Oct 28 - Nov 1 Manchester, NH
Apr 8 - 12 San Jose, CA	Oct 28 - Nov 1 Schaumburg, IL
Apr 22 - 26 . . . Minneapolis, MN	Dec 2 - 6 Manchester, NH
Apr 22 - 26 . . . Manchester, NH	Dec 9 - 13 Toronto, ON
Jun 3 - 7 Manchester, NH	Dec 9 - 13 Minneapolis, MN
Jun 10 - 14 . . . San Jose, CA	Dec 16 - 19 . . . Palm Bay, FL
Jun 10 - 14 . . . Toronto, ON	Dec 16 - 20 . . . San Jose, CA

IPC-7711/7721 CIS Recertification

Jan 30 - 31 . . . Manchester, NH	Jul 22 - 23 Minneapolis, MN
Feb 5 - 6 Palm Bay, FL	Jul 29 - 30 San Jose, CA
Feb 15 - 16 . . . Toronto, ON	Aug 8 - 9 Toronto, ON
Feb 29 - Mar 1 Schaumburg, IL	Aug 19 - 20 . . . Manchester, NH
Mar 7 - 8 Manchester, NH	Sep 4 - 5 Schaumburg, IL
Mar 21 - 22 . . . Minneapolis, MN	Sep 23 - 24 . . . Manchester, NH
Mar 27 - 28 . . . San Jose, CA	Oct 2 - 3 Manchester, NH
Apr 1 - 2 Manchester, NH	Oct 3 - 4 San Jose, CA
May 2 - 3 Schaumburg, IL	Nov 18 - 19 . . . Palm Bay, FL
May 6 - 7 Toronto, ON	Nov 25 - 26 . . . Manchester, NH
May 30 - 31 . . . Manchester, NH	Nov 25 - 26 . . . Schaumburg, IL
Jun 10 - 11 . . . Palm Bay, FL	Nov 25 - 26 . . . Toronto, ON
Jun 11 - 12 . . . Watertown, CT	Nov 25 - 26 . . . Watertown, CT
Jul 1 - 2 Manchester, NH	

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.



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-7711/7721 Certified Standards Expert (CSE)

IPC-7711 "Rework of Electronic Assemblies"

IPC-7721 "Repair & Modification of Printed Boards and Electronic Assemblies"

Become a subject matter expert in IPC-7711 and IPC-7721.

IPC-7711/7721 CSE Certification

Jan 22 - 26 ... San Jose	Jul 8 - 12 ... Schaumburg, IL
Jan 22 - 26 ... Toronto, ON	Jul 15 - 18 ... Palm Bay, FL
Feb 12 - 16 ... Manchester, NH	Aug 12 - 16 ... Manchester, NH
Feb 19 - 22 ... Palm Bay, FL	Aug 26 - 30 ... San Jose, CA
Feb 19 - 23 ... San Jose, CA	Oct 7 - 11 ... Watertown, CT
Mar 4 - 8 ... Schaumburg, IL	Oct 21 - 25 ... San Jose, CA
Mar 4 - 8 ... Watertown, CT	Oct 21 - 25 ... Toronto, ON
Mar 11 - 15 ... Toronto, ON	Oct 28 - Nov 1 ... Manchester, NH
Apr 8 - 12 ... San Jose, CA	Oct 28 - Nov 1 ... Schaumburg, IL
Apr 22 - 26 ... Manchester, NH	Dec 2 - 6 ... Manchester, NH
Apr 22 - 26 ... Minneapolis, MN	Dec 9 - 13 ... Minneapolis, MN
Jun 3 - 7 ... Manchester, NH	Dec 9 - 13 ... Toronto, ON
Jun 10 - 14 ... San Jose, CA	Dec 16 - 19 ... Palm Bay, FL
Jun 10 - 14 ... Toronto, ON	Dec 16 - 20 ... San Jose, CA

IPC-7711/7721 CSE Recertification

Jan 30 - 31 ... Manchester, NH	Jul 22 - 23 ... Minneapolis, MN
Feb 5 - 6 ... Palm Bay, FL	Jul 29 - 30 ... San Jose, CA
Feb 15 - 16 ... Toronto, ON	Aug 8 - 9 ... Toronto, ON
Feb 29 - Mar 1 ... Schaumburg, IL	Aug 19 - 20 ... Manchester, NH
Mar 7 - 8 ... Manchester, NH	Sep 4 - 5 ... Schaumburg, IL
Mar 21 - 22 ... Minneapolis, MN	Sep 23 - 24 ... Manchester, NH
Mar 27 - 28 ... San Jose, CA	Oct 2 - 3 ... Manchester, NH
Apr 1 - 2 ... Manchester, NH	Oct 3 - 4 ... San Jose, CA
May 2 - 3 ... Schaumburg, IL	Nov 18 - 19 ... Palm Bay, FL
May 6 - 7 ... Toronto, ON	Nov 25 - 26 ... Manchester, NH
May 30 - 31 ... Manchester, NH	Nov 25 - 26 ... Schaumburg, IL
Jun 10 - 11 ... Palm Bay, FL	Nov 25 - 26 ... Toronto, ON
Jun 11 - 12 ... Watertown, CT	Nov 25 - 26 ... Watertown, CT
Jul 1 - 2 ... Manchester, NH	

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

Challenge Test

IN-PERSON Manchester, NH

Jan 12	Jul 1
Jan 26	Aug 9
Feb 16	Sep 27
Mar 1	Oct 11
Apr 12	Nov 8
May 10	Nov 22
Jun 7	

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

Jan 10	May 15	Sep 18
Jan 24	May 29	Oct 2
Feb 7	Jun 12	Oct 16
Feb 21	Jun 26	Oct 30
Mar 6	Jul 10	Nov 13
Mar 20	Jul 24	Nov 25
Apr 3	Aug 7	Dec 11
Apr 17	Aug 21	Dec 23
May 1	Sep 4	

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.



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

HARNESST 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-6012 Certified IPC Trainer (CIT)

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

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

IPC-6012 CIT Certification

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

Feb 26 - 29
Jun 17 - 20
Oct 28 - 31

Challenge Test

IN-PERSON Manchester, NH

Jan 12
Jan 26
Feb 16
Mar 1
Apr 12
May 10
Jun 7

Jul 1
Aug 9
Sep 27
Oct 11
Nov 8
Nov 22

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

Jan 10
Jan 24
Feb 7
Feb 21
Mar 6
Mar 20
Apr 3
Apr 17
May 1

May 15
May 29
Jun 12
Jun 26
Jul 10
Jul 24
Aug 7
Aug 21
Sep 4

IPC-6012 CIT Recertification

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

Feb 26 - 29
Jun 17 - 20
Oct 28 - 31

Challenge Test

IN-PERSON Manchester, NH

Jan 12
Jan 26
Feb 16
Mar 1
Apr 12
May 10
Jun 7

Jul 1
Aug 9
Sep 27
Oct 11
Nov 8
Nov 22

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

Jan 10
Jan 24
Feb 7
Feb 21
Mar 6
Mar 20
Apr 3
Apr 17
May 1

May 15
May 29
Jun 12
Jun 26
Jul 10
Jul 24
Aug 7
Aug 21
Sep 4

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.



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-6012 Certified IPC Specialist (CIS)

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

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

IPC-6012 CIS Certification

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

Feb 26 - 29
 Jun 17 - 20
 Oct 28 - 31

Challenge Test

IN-PERSON Manchester, NH

Jan 12
 Jan 26
 Feb 16
 Mar 1
 Apr 12
 May 10
 Jun 7

Jul 1
 Aug 9
 Sep 27
 Oct 11
 Nov 8
 Nov 22

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

Jan 10
 Jan 24
 Feb 7
 Feb 21
 Mar 6
 Mar 20
 Apr 3
 Apr 17
 May 1

May 15
 May 29
 Jun 12
 Jun 26
 Jul 10
 Jul 24
 Aug 7
 Aug 21
 Sep 4

Sep 18
 Oct 2
 Oct 16
 Oct 30
 Nov 13
 Nov 25
 Dec 11
 Dec 23

IPC-6012 CIS Recertification

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

Feb 26 - 29
 Jun 17 - 20
 Oct 28 - 31

Challenge Test

IN-PERSON Manchester, NH

Jan 12
 Jan 26
 Feb 16
 Mar 1
 Apr 12
 May 10
 Jun 7

Jul 1
 Aug 9
 Sep 27
 Oct 11
 Nov 8
 Nov 22

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

Jan 10
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 Mar 20
 Apr 3
 Apr 17
 May 1

May 15
 May 29
 Jun 12
 Jun 26
 Jul 10
 Jul 24
 Aug 7
 Aug 21
 Sep 4

Sep 18
 Oct 2
 Oct 16
 Oct 30
 Nov 13
 Nov 25
 Dec 11
 Dec 23

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.



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-6012 Certified Standards Expert (CSE)

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

Become a subject matter expert in IPC-A-6012.

IPC-6012 CSE Certification

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

Feb 26 - 29
 Jun 17 - 20
 Oct 28 - 31

Challenge Test

IN-PERSON Manchester, NH

Jan 12
 Jan 26
 Feb 16
 Mar 1
 Apr 12
 May 10
 Jun 7

Jul 1
 Aug 9
 Sep 27
 Oct 11
 Nov 8
 Nov 22

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

Jan 10
 Jan 24
 Feb 7
 Feb 21
 Mar 6
 Mar 20
 Apr 3
 Apr 17
 May 1

May 15
 May 29
 Jun 12
 Jun 26
 Jul 10
 Jul 24
 Aug 7
 Aug 21
 Sep 4

IPC-6012 CSE Recertification

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

Feb 26 - 29
 Jun 17 - 20
 Oct 28 - 31

Challenge Test

IN-PERSON Manchester, NH

Jan 12
 Jan 26
 Feb 16
 Mar 1
 Apr 12
 May 10
 Jun 7

Jul 1
 Aug 9
 Sep 27
 Oct 11
 Nov 8
 Nov 22

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

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 Jul 10
 Jul 24
 Aug 7
 Aug 21
 Sep 4

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.



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 Interconnect Designer Certification (CID and CID+)

IPC-2221 "Generic Standard on Printed Board Design"

IPC-2222 "Sectional Standard on Rigid Organic Printed Boards"

These courses go 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.

IPC CID Certification

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

FOR LECTURE AND EXAM ONLY*

Jan 15 - 18
 Feb 5 - 8
 Mar 11 - 14
 Apr 8 - 11
 May 13 - 16
 Jun 10 - 13
 Jul 15 - 18
 Aug 12 - 15
 Sep 9 - 12
 Oct 7 - 10
 Nov 11 - 14
 Dec 2 - 5

IPC CID+ Certification

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

FOR LECTURE AND EXAM ONLY*

Feb 12 - 15
 Apr 22 - 25
 Jun 24 - 27
 Aug 19 - 22
 Oct 14 - 17
 Dec 9 - 12

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.



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

IDEA Counterfeit Component Training

IDEA-TRN-2000 "Inspection for Visual Indicators of Counterfeit Parts"

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

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

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

- Jan 3
- Apr 3
- Jul 10
- Nov 27

IDEA Essentials

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

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

- Jan 4 - 5
- Apr 4 - 5
- Jul 11 - 12
- Nov 25 - 26

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.



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

HARNESST 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.

Hand Soldering Certification

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

Hand Soldering Recertification

Jan 2	Manchester, NH	Jun 19	Manchester, NH
Jan 5	San Jose, CA	Jun 20	Schaumburg, IL
Jan 5	Toronto, ON	Jul 3	Manchester, NH
Jan 12	San Diego, CA	Jul 12	Toronto, ON
Jan 26	Schaumburg, IL	Jul 26	Rochester, NY
Feb 2	Manchester, NH	Aug 21	Manchester, NH
Feb 16	Rochester, NY	Sep 6	San Jose, CA
Feb 23	Seattle, WA	Sep 20	Watertown, CT
Mar 11	San Diego, CA	Oct 2	Toronto, ON
Mar 15	Manchester, NH	Oct 11	San Diego, CA
Mar 29	San Jose, CA	Oct 18	Manchester, NH
Apr 5	Manchester, NH	Oct 25	Seattle, WA
May 3	Anaheim, CA	Nov 1	San Jose, CA
May 15	Toronto, ON	Nov 8	Schaumburg, IL
May 28	Manchester, NH	Nov 8	Watertown, CT
Jun 7	San Jose, CA	Nov 21	Manchester, NH
Jun 14	San Diego, CA		

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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

HARNESST 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

Advanced Surface Mount Micro Hand Soldering

J-STD-001 / IPC-A-610 / IPC-7711

Learn proper techniques for placement, soldering and rework of fine pitch and multi-leaded extra fine pitch surface mount components

Advanced SMT Micro Hand Soldering Certification

Feb 26 - 27 . . . San Jose, CA	Jun 17 - 18 . . . Manchester, NH
Apr 3 - 4 Manchester, NH	Sep 4 - 5 San Jose, CA
May 20 - 21 . . San Jose, CA	Oct 17 - 18 . . . Schaumburg, IL
May 30 - 31 . . Schaumburg, IL	Oct 24 - 25 . . . Manchester, NH

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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

PCB Fundamentals Training

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

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

Crimp Terminations Certification

Aug 16 Manchester, NH
Dec 30 Manchester, NH

Crimp Terminations Recertification

Aug 16 Manchester, NH
Dec 30 Manchester, NH

Electrostatic Discharge (ESD) Training

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

Feb 2
Apr 12
Aug 7
Nov 1

Component ID Training

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

Jan 12
Apr 5
Jul 19
Oct 4

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