



### TRAINING

- Expert Training in the Latest Technologies
- Industry-Demanded Certifications

### PCB TECHNOLOGY

#### Quality & Inspection

- IPC-A-610 Instructor & Operator Certification

#### Soldering & Assembly

- IPC J-STD-001 Instructor & Operator Certification

#### Bare Board Inspection

- IPC-A-600 Instructor & Operator Certification
- IPC-6012 Instructor & Operator Certification

#### Rework & Repair

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

#### Hand Soldering Skills

- Soldering Basics, Wires & Terminals, Lap Solder Joints, Through-Hole and Surface Mount Training

#### PCB Fundamentals

- Component Identification
- Electrostatic Discharge

#### PCB Design

- IPC Designer & IPC Advanced Designer Certification

### COUNTERFEIT COMPONENTS

#### IDEA-STD-1010

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

### CABLE & WIRE HARNESS TECHNOLOGY

#### Quality & Inspection

- IPC-A-620 Instructor & Operator Certification

#### Hands-On Labs

- Crimping & Harness Assembly Training

### TECHNICAL SUPPORT

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

## IPC-A-610 Certified IPC Trainer

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

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

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

### Recertifications (Req. 24 mos.)

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

## IPC-A-610 Standard Expert

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

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

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

## Interactive PCB Inspection Lab

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

|        |                   |
|--------|-------------------|
| Jan 17 | Watertown, CT     |
| Jan 17 | Buffalo, NY       |
| Jan 24 | Schaumburg, IL    |
| Jan 24 | Toronto, ON       |
| Jan 24 | Pittsburgh, PA    |
| Jan 31 | San Diego, CA     |
| Feb 14 | Seattle, WA       |
| Feb 20 | Manchester, NH    |
| Feb 21 | Anaheim, CA       |
| Feb 28 | Minneapolis, MN   |
| Mar 13 | Long Island, NY   |
| Mar 26 | Manchester, NH    |
| Mar 27 | Rochester, NY     |
| Apr 3  | Ottawa, ON        |
| Apr 10 | Atlanta Metro, GA |
| Apr 17 | Schaumburg, IL    |
| Apr 23 | Manchester, NH    |
| Apr 24 | Watertown, CT     |
| Apr 24 | Toronto, ON       |
| May 8  | Syracuse, NY      |
| May 8  | Seattle, WA       |
| May 15 | Buffalo, NY       |
| May 21 | Manchester, NH    |
| May 22 | Anaheim, CA       |
| Jun 5  | Pittsburgh, PA    |
| Jun 12 | Manchester, NH    |
| Jun 19 | Kansas City, MO   |
| Jun 19 | Akron, OH         |
| Jul 17 | Syracuse, NY      |
| Jul 23 | Manchester, NH    |
| Jul 24 | Atlanta Metro, GA |
| Jul 24 | San Diego, CA     |
| Jul 31 | Schaumburg, IL    |
| Jul 31 | Manchester, NH    |
| Aug 28 | Anaheim, CA       |
| Oct 1  | Manchester, NH    |
| Oct 9  | Watertown, CT     |
| Oct 9  | Buffalo, NY       |
| Oct 9  | Ottawa, ON        |
| Oct 16 | Manchester, NH    |
| Oct 23 | Long Island, NY   |
| Nov 6  | Minneapolis, MN   |
| Nov 13 | Santa Clara, CA   |
| Nov 13 | Akron, OH         |
| Nov 20 | Rochester, NY     |
| Nov 20 | Kansas City, MO   |
| Nov 27 | Toronto, ON       |
| Dec 4  | San Diego, CA     |
| Dec 4  | Schaumburg, IL    |
| Dec 4  | Pittsburgh, PA    |
| Dec 11 | Anaheim, CA       |
| Dec 11 | Manchester, NH    |

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



# eptac

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## 2020 Instructor Training & Certification Schedule

800-643-7822

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 eptaccanada.ca



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- IPC-6012 Instructor & Operator Certification

#### Rework & Repair

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

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- Component Identification
- Electrostatic Discharge

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#### Quality & Inspection

- IPC-A-620 Instructor & Operator Certification

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- Crimping & Harness Assembly Training

### TECHNICAL SUPPORT

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

### J-STD-001 Certified IPC Trainer

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

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

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

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

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

### J-STD-001 Standard Expert

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

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

Jan 13 - 17 . . . . . Kansas City, MO  
Jan 20 - 24 . . . . . Manchester, NH  
Jan 27 - 31 . . . . . Anaheim, CA  
Feb 3 - 7 . . . . . Schaumburg, IL  
Feb 10 - 14 . . . . . Watertown, CT  
Feb 10 - 14 . . . . . Toronto, ON  
Feb 17 - 21 . . . . . Syracuse, NY  
Feb 17 - 21 . . . . . San Diego, CA  
Feb 24 - 28 . . . . . Palm Bay, FL  
Feb 24 - 28 . . . . . Rochester, NY  
Mar 2 - 6 . . . . . Ottawa, ON  
Mar 9 - 13 . . . . . Seattle, WA  
Mar 16 - 20 . . . . . Minneapolis, MN  
Mar 23 - 27 . . . . . Manchester, NH  
Apr 6 - 10 . . . . . Buffalo, NY  
Apr 13 - 17 . . . . . Anaheim, CA  
Apr 27 - May 1 . . . . . San Diego, CA  
May 4 - 8 . . . . . Palm Bay, FL  
May 4 - 8 . . . . . Kansas City, MO  
May 4 - 8 . . . . . Long Island, NY  
May 18 - 22 . . . . . Watertown, CT  
May 18 - 22 . . . . . Binghamton, NY  
May 18 - 22 . . . . . Manchester, NH  
Jun 1 - 5 . . . . . Rochester, NY  
Jun 8 - 12 . . . . . Seattle, WA  
Jun 15 - 19 . . . . . Schaumburg, IL  
Jun 15 - 19 . . . . . Toronto, ON

Jun 22 - 26 . . . . . Minneapolis, MN  
Jul 20 - 24 . . . . . Anaheim, CA  
Jul 20 - 24 . . . . . Buffalo, NY  
Jul 27 - 31 . . . . . Manchester, NH  
Aug 10 - 14 . . . . . Palm Bay, FL  
Aug 17 - 21 . . . . . Watertown, CT  
Aug 17 - 21 . . . . . Ottawa, ON  
Aug 31 - Sep 4 . . . . . Manchester, NH  
Aug 31 - Sep 4 . . . . . San Diego, CA  
Sep 14 - 18 . . . . . Minneapolis, MN  
Sep 14 - 18 . . . . . Toronto, ON  
Sep 14 - 18 . . . . . Seattle, WA  
Sep 14 - 18 . . . . . Schaumburg, IL  
Oct 5 - 9 . . . . . Binghamton, NY  
Oct 12 - 16 . . . . . Kansas City, MO  
Oct 19 - 23 . . . . . Anaheim, CA  
Oct 19 - 23 . . . . . Rochester, NY  
Nov 2 - 6 . . . . . Manchester, NH  
Nov 2 - 6 . . . . . Watertown, CT  
Nov 2 - 6 . . . . . Long Island, NY  
Nov 9 - 13 . . . . . Schaumburg, IL  
Nov 16 - 20 . . . . . San Diego, CA  
Nov 30 - Dec 4 . . . . . Ottawa, ON  
Dec 7 - 11 . . . . . Toronto, ON  
Dec 14 - 18 . . . . . Palm Bay, FL  
Dec 14 - 18 . . . . . Buffalo, NY  
Dec 14 - 18 . . . . . Seattle, WA

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

Jan 31 . . . . . Manchester, NH  
Feb 17 . . . . . Toronto, ON  
Mar 30 . . . . . Manchester, NH  
May 15 . . . . . Watertown, CT  
May 22 . . . . . Rochester, NY  
May 29 . . . . . Toronto, ON  
Jun 19 . . . . . Manchester, NH  
Jul 24 . . . . . Manchester, NH  
Aug 7 . . . . . Watertown, CT  
Sep 28 . . . . . Manchester, NH  
Oct 15 . . . . . San Diego, CA  
Nov 13 . . . . . Manchester, NH  
Nov 20 . . . . . Toronto, ON  
Dec 22 . . . . . Manchester, NH

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

Jan 31 . . . . . Manchester, NH  
Feb 17 . . . . . Toronto, ON  
Mar 30 . . . . . Manchester, NH  
May 15 . . . . . Watertown, CT  
May 22 . . . . . Rochester, NY  
May 29 . . . . . Toronto, ON  
Jun 19 . . . . . Manchester, NH  
Jul 24 . . . . . Manchester, NH  
Aug 7 . . . . . Watertown, CT  
Sep 28 . . . . . Manchester, NH  
Oct 15 . . . . . San Diego, CA  
Nov 13 . . . . . Manchester, NH  
Nov 20 . . . . . Toronto, ON  
Dec 22 . . . . . Manchester, NH

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#### Hands-On Labs

- Crimping & Harness Assembly Training

### TECHNICAL SUPPORT

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

### IPC-A-620 Certified IPC Trainer

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

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

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

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

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

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

### IPC-A-620 Standard Expert

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

Become a subject matter expert in IPC-A-620.

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

### IPC-A-620 Hands On Labs (optional)

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

|        |       |                   |
|--------|-------|-------------------|
| Jan 17 | ..... | Manchester, NH    |
| Jan 24 | ..... | San Diego, CA     |
| Feb 7  | ..... | Ottawa, ON        |
| Feb 14 | ..... | Pittsburgh, PA    |
| Mar 6  | ..... | Manchester, NH    |
| Mar 6  | ..... | Syracuse, NY      |
| Mar 13 | ..... | Kansas City, MO   |
| Mar 13 | ..... | Santa Clara, CA   |
| Mar 20 | ..... | Anaheim, CA       |
| Mar 20 | ..... | Manchester, NH    |
| Mar 20 | ..... | Buffalo, NY       |
| Mar 27 | ..... | Minneapolis, MN   |
| Apr 17 | ..... | Rochester, NY     |
| Apr 24 | ..... | Schaumburg, IL    |
| May 1  | ..... | Manchester, NH    |
| May 1  | ..... | Binghamton, NY    |
| May 8  | ..... | Atlanta Metro, GA |
| May 8  | ..... | San Diego, CA     |
| May 8  | ..... | Toronto, ON       |
| May 15 | ..... | Manchester, NH    |
| May 15 | ..... | Long Island, NY   |
| May 15 | ..... | Akron, OH         |
| Jun 5  | ..... | Ottawa, ON        |
| Jun 12 | ..... | Minneapolis, MN   |
| Jun 12 | ..... | Syracuse, NY      |
| Jun 19 | ..... | Anaheim, CA       |
| Jun 19 | ..... | Buffalo, NY       |
| Jun 26 | ..... | Manchester, NH    |
| Jul 17 | ..... | Schaumburg, IL    |
| Jul 17 | ..... | Manchester, NH    |
| Jul 24 | ..... | Watertown, CT     |
| Aug 7  | ..... | Atlanta Metro, GA |
| Aug 14 | ..... | Toronto, ON       |
| Aug 21 | ..... | Rochester, NY     |
| Aug 28 | ..... | Santa Clara, CA   |
| Aug 28 | ..... | Manchester, NH    |
| Sep 18 | ..... | Manchester, NH    |
| Sep 18 | ..... | Buffalo, NY       |
| Sep 18 | ..... | Long Island, NY   |
| Sep 18 | ..... | Akron, OH         |
| Oct 23 | ..... | Schaumburg, IL    |
| Oct 30 | ..... | Syracuse, NY      |
| Nov 6  | ..... | Manchester, NH    |
| Nov 6  | ..... | Ottawa, ON        |
| Nov 20 | ..... | Atlanta Metro, GA |
| Nov 20 | ..... | Seattle, WA       |
| Dec 4  | ..... | Santa Clara, CA   |
| Dec 4  | ..... | Toronto, ON       |
| Dec 11 | ..... | Schaumburg, IL    |
| Dec 11 | ..... | Rochester, NY     |
| Dec 18 | ..... | San Diego, CA     |
| Dec 18 | ..... | Watertown, CT     |
| Dec 18 | ..... | Kansas City, MO   |
| Dec 18 | ..... | Manchester, NH    |





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## 2020 Instructor Training & Certification Schedule

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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

### IPC-7711/7721 Certified IPC Trainer

#### IPC-7711 "Rework of Electronic Assemblies"

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

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

Jan 6 - 10 . . . . . Seattle, WA  
Jan 27 - 31 . . . . . Minneapolis, MN  
Jan 27 - 31 . . . . . Manchester, NH  
Mar 2 - 6 . . . . . Watertown, CT  
Mar 9 - 13 . . . . . Schaumburg, IL  
Mar 30 - Apr 3 . . . . . Toronto, ON  
Apr 20 - 24 . . . . . Schaumburg, NH  
May 4 - 8 . . . . . Minneapolis, MN  
Jun 1 - 5 . . . . . Seattle, WA  
Jun 8 - 12 . . . . . Schaumburg, IL  
Jun 8 - 12 . . . . . Toronto, ON  
Jun 15 - 18 . . . . . Palm Bay, FL  
Jul 20 - 24 . . . . . Manchester, NH  
Aug 24 - 28 . . . . . Manchester, NH  
Sep 28 - Oct 2 . . . . . Watertown, CT  
Oct 19 - 23 . . . . . Toronto, ON  
Oct 26 - 30 . . . . . Schaumburg, IL  
Oct 26 - 30 . . . . . Manchester, NH  
Nov 2 - 6 . . . . . Seattle, WA  
Nov 16 - 19 . . . . . Palm Bay, FL  
Nov 30 - Dec 4 . . . . . Manchester, NH  
Dec 7 - 11 . . . . . Minneapolis, MN  
Dec 14 - 18 . . . . . Toronto, ON

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

Jan 2 - 3 . . . . . Manchester, NH  
Feb 3 - 4 . . . . . Palm Bay, FL  
Feb 6 - 7 . . . . . Manchester, NH  
Feb 27 - 28 . . . . . Schaumburg, IL  
Mar 3 - 4 . . . . . Toronto, ON  
Mar 12 - 13 . . . . . Minneapolis, MN  
Mar 30 - 31 . . . . . Manchester, NH  
Apr 23 - 24 . . . . . Seattle, WA  
May 27 - 28 . . . . . Manchester, NH  
Jun 22 - 23 . . . . . Schaumburg, IL  
Jun 22 - 23 . . . . . Toronto, ON  
Jul 15 - 16 . . . . . Minneapolis, MN  
Aug 6 - 7 . . . . . Seattle, WA  
Aug 19 - 20 . . . . . Manchester, NH  
Sep 1 - 2 . . . . . Toronto, ON  
Sep 2 - 3 . . . . . Schaumburg, IL  
Sep 29 - 30 . . . . . Manchester, NH  
Oct 1 - 2 . . . . . Manchester, NH  
Oct 26 - 27 . . . . . Palm Bay, FL  
Oct 27 - 28 . . . . . Toronto, ON  
Nov 9 - 10 . . . . . Manchester, NH  
Dec 14 - 15 . . . . . Schaumburg, IL

### IPC-7711/7721 Standard Expert

#### 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.

Jan 6 - 10 . . . . . Seattle, WA  
Jan 27 - 31 . . . . . Minneapolis, MN  
Jan 27 - 31 . . . . . Manchester, NH  
Mar 2 - 6 . . . . . Watertown, CT  
Mar 9 - 13 . . . . . Schaumburg, IL  
Mar 30 - Apr 3 . . . . . Toronto, ON  
Apr 20 - 24 . . . . . Manchester, NH  
May 4 - 8 . . . . . Minneapolis, MN  
Jun 1 - 5 . . . . . Seattle, WA  
Jun 8 - 12 . . . . . Schaumburg, IL  
Jun 8 - 12 . . . . . Toronto, ON  
Jun 15 - 18 . . . . . Palm Bay, FL  
Jul 20 - 24 . . . . . Manchester, NH  
Aug 24 - 28 . . . . . Manchester, NH  
Sep 28 - Oct 2 . . . . . Watertown, CT  
Oct 19 - 23 . . . . . Toronto, ON  
Oct 26 - 30 . . . . . Schaumburg, IL  
Oct 26 - 30 . . . . . Manchester, NH  
Nov 2 - 6 . . . . . Seattle, WA  
Nov 16 - 19 . . . . . Palm Bay, FL  
Nov 30 - Dec 4 . . . . . Manchester, NH  
Dec 7 - 11 . . . . . Minneapolis, MN  
Dec 14 - 18 . . . . . Toronto, ON

### IPC-A-600 Certified IPC Trainer

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

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

Jan 8 - 10 . . . . . Schaumburg, IL  
Feb 17 - 19 . . . . . Manchester, NH  
Mar 2 - 4 . . . . . Minneapolis, MN  
Mar 18 - 20 . . . . . Toronto, ON  
Apr 14 - 16 . . . . . Seattle, WA  
May 27 - 29 . . . . . Manchester, NH  
Jun 2 - 4 . . . . . Minneapolis, MN  
Jun 10 - 12 . . . . . Palm Bay, FL  
Jul 20 - 22 . . . . . Schaumburg, IL  
Jul 22 - 24 . . . . . Toronto, ON  
Sep 2 - 4 . . . . . Manchester, NH  
Sep 9 - 11 . . . . . Seattle, WA  
Oct 14 - 16 . . . . . Toronto, ON  
Oct 26 - 28 . . . . . Minneapolis, MN  
Nov 16 - 18 . . . . . Manchester, NH

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

Jan 8 - 10 . . . . . Schaumburg, IL  
Feb 17 - 19 . . . . . Manchester, NH  
Mar 2 - 4 . . . . . Minneapolis, MN  
Mar 18 - 20 . . . . . Toronto, ON  
Apr 14 - 16 . . . . . Seattle, WA  
May 27 - 29 . . . . . Manchester, NH  
Jun 2 - 4 . . . . . Minneapolis, MN  
Jun 10 - 12 . . . . . Palm Bay, FL  
Jul 20 - 22 . . . . . Schaumburg, IL  
Jul 22 - 24 . . . . . Toronto, ON  
Sep 2 - 4 . . . . . Manchester, NH  
Sep 9 - 11 . . . . . Seattle, WA  
Oct 14 - 16 . . . . . Toronto, ON  
Oct 26 - 28 . . . . . Minneapolis, MN  
Nov 16 - 18 . . . . . Manchester, NH

### IPC-A-600 Standard Expert

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

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

Jan 8 - 10 . . . . . Schaumburg, IL  
Feb 17 - 19 . . . . . Manchester, NH  
Mar 2 - 4 . . . . . Minneapolis, MN  
Mar 18 - 20 . . . . . Toronto, ON  
Apr 14 - 16 . . . . . Seattle, WA  
May 27 - 29 . . . . . Manchester, NH  
Jun 2 - 4 . . . . . Minneapolis, MN  
Jun 10 - 12 . . . . . Palm Bay, FL  
Jul 20 - 22 . . . . . Schaumburg, IL  
Jul 22 - 24 . . . . . Toronto, ON  
Sep 2 - 4 . . . . . Manchester, NH  
Sep 9 - 11 . . . . . Seattle, WA  
Oct 14 - 16 . . . . . Toronto, ON  
Oct 26 - 28 . . . . . Minneapolis, MN  
Nov 16 - 18 . . . . . Manchester, NH

### IPC-6012 Certified IPC Trainer

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

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

Feb 24 - 27 . . . . . Santa Clara, CA  
Mar 31 - Apr 3 . . . . . Manchester, NH  
Aug 10 - 13 . . . . . Manchester, NH  
Sep 22 - 25 . . . . . Santa Clara, CA  
Oct 19 - 22 . . . . . Manchester, NH

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

Feb 24 - 27 . . . . . Santa Clara, CA  
Mar 31 - Apr 3 . . . . . Manchester, NH  
Aug 10 - 13 . . . . . Manchester, NH  
Sep 22 - 25 . . . . . Santa Clara, CA  
Oct 19 - 22 . . . . . Manchester, NH

### IPC-6012 Standard Expert

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

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

Feb 24 - 27 . . . . . Santa Clara, CA  
Mar 31 - Apr 3 . . . . . Manchester, NH  
Aug 10 - 13 . . . . . Manchester, NH  
Sep 22 - 25 . . . . . Santa Clara, CA  
Oct 19 - 22 . . . . . Manchester, NH

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



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### TRAINING

- Expert Training in the Latest Technologies
- Industry-Demanded Certifications

### PCB TECHNOLOGY

#### Quality & Inspection

- IPC-A-610 Instructor & Operator Certification

#### Soldering & Assembly

- IPC J-STD-001 Instructor & Operator Certification

#### Bare Board Inspection

- IPC-A-600 Instructor & Operator Certification
- IPC-6012 Instructor & Operator Certification

#### Rework & Repair

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

#### Hand Soldering Skills

- Soldering Basics, Wires & Terminals, Lap Solder Joints, Through-Hole and Surface Mount Training

#### PCB Fundamentals

- Component Identification
- Electrostatic Discharge

#### PCB Design

- IPC Designer & IPC Advanced Designer Certification

### COUNTERFEIT COMPONENTS

#### IDEA-STD-1010

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

### CABLE & WIRE HARNESS TECHNOLOGY

#### Quality & Inspection

- IPC-A-620 Instructor & Operator Certification

#### Hands-On Labs

- Crimping & Harness Assembly Training

### TECHNICAL SUPPORT

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

### IPC-A-610 Certified IPC Specialist

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

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

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

Aug 17 - 19 . . . . . Minneapolis, MN  
Aug 24 - 26 . . . . . Anaheim, CA  
Sep 21 - 23 . . . . . Manchester, NH  
Sep 28 - 30 . . . . . Manchester, NH  
Sep 28 - 30 . . . . . Syracuse, NY  
Oct 5 - 7 . . . . . Watertown, CT  
Oct 5 - 7 . . . . . Buffalo, NY  
Oct 5 - 7 . . . . . Ottawa, ON  
Oct 19 - 21 . . . . . Long Island, NY  
Oct 20 - 22 . . . . . Manchester, NH  
Oct 26 - 28 . . . . . Seattle, WA  
Nov 2 - 4 . . . . . Palm Bay, FL  
Nov 2 - 4 . . . . . Minneapolis, MN  
Nov 9 - 11 . . . . . Santa Clara, CA  
Nov 9 - 11 . . . . . Akron, OH  
Nov 16 - 18 . . . . . Kansas City, MO  
Nov 16 - 18 . . . . . Rochester, NY  
Nov 23 - 25 . . . . . Toronto, ON  
Nov 23 - 25 . . . . . Manchester, NH  
Nov 30 - Dec 2 . . . . . San Diego, CA  
Nov 30 - Dec 2 . . . . . Schaumburg, IL  
Nov 30 - Dec 2 . . . . . Binghamton, NY  
Nov 30 - Dec 2 . . . . . Pittsburgh, PA  
Dec 7 - 9 . . . . . Anaheim, CA

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

Jan 13 - 15 . . . . . Watertown, CT  
Jan 13 - 15 . . . . . Buffalo, NY  
Jan 20 - 22 . . . . . Schaumburg, IL  
Jan 20 - 22 . . . . . Toronto, ON  
Jan 20 - 22 . . . . . Pittsburgh, PA  
Jan 21 - 23 . . . . . Manchester, NH  
Jan 27 - 29 . . . . . San Diego, CA  
Jan 27 - 29 . . . . . Palm Bay, FL  
Feb 17 - 19 . . . . . Anaheim, CA  
Feb 17 - 19 . . . . . Manchester, NH  
Feb 18 - 20 . . . . . Kansas City, MO  
Feb 24 - 26 . . . . . Minneapolis, MN  
Mar 2 - 4 . . . . . Seattle, WA  
Mar 9 - 11 . . . . . Long Island, NY  
Mar 23 - 25 . . . . . Rochester, NY  
Mar 23 - 25 . . . . . Manchester, NH  
Mar 30 - Apr 1 . . . . . Ottawa, ON  
Apr 6 - 8 . . . . . Atlanta Metro, GA  
Apr 6 - 8 . . . . . San Diego, CA  
Apr 6 - 8 . . . . . Binghamton, NY  
Apr 13 - 15 . . . . . Schaumburg, IL  
Apr 20 - 22 . . . . . Watertown, CT  
Apr 20 - 22 . . . . . Palm Bay, FL  
Apr 20 - 22 . . . . . Toronto, ON  
Apr 20 - 22 . . . . . Manchester, NH

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

### Interactive PCB Inspection Lab

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

Jan 17 . . . . . Watertown, CT  
Jan 17 . . . . . Buffalo, NY  
Jan 24 . . . . . Schaumburg, IL  
Jan 24 . . . . . Toronto, ON  
Jan 24 . . . . . Pittsburgh, PA  
Jan 31 . . . . . San Diego, CA  
Feb 14 . . . . . Seattle, WA  
Feb 20 . . . . . Manchester, NH  
Feb 21 . . . . . Anaheim, CA  
Feb 28 . . . . . Minneapolis, MN  
Mar 13 . . . . . Long Island, NY  
Mar 26 . . . . . Manchester, NH  
Mar 27 . . . . . Rochester, NY  
Apr 3 . . . . . Ottawa, ON  
Apr 10 . . . . . Atlanta Metro, GA  
Apr 17 . . . . . Schaumburg, IL  
Apr 23 . . . . . Manchester, NH  
Apr 24 . . . . . Watertown, CT  
Apr 24 . . . . . Toronto, ON  
May 8 . . . . . Syracuse, NY  
May 8 . . . . . Seattle, WA  
May 15 . . . . . Buffalo, NY  
May 21 . . . . . Atlanta Metro, NH  
May 22 . . . . . Anaheim, CA  
Jun 5 . . . . . Pittsburgh, PA  
Jun 12 . . . . . Manchester, NH  
Jun 19 . . . . . Kansas City, MO  
Jun 19 . . . . . Akron, OH  
Jul 17 . . . . . Syracuse, NY  
Jul 23 . . . . . Manchester, NH  
Jul 24 . . . . . Atlanta Metro, GA  
Jul 24 . . . . . San Diego, CA  
Jul 31 . . . . . Schaumburg, IL  
Jul 31 . . . . . Manchester, NH  
Aug 28 . . . . . Anaheim, CA  
Oct 1 . . . . . Manchester, NH  
Oct 9 . . . . . Watertown, CT  
Oct 9 . . . . . Buffalo, NY  
Oct 9 . . . . . Ottawa, ON  
Oct 16 . . . . . Manchester, NH  
Oct 23 . . . . . Long Island, NY  
Nov 6 . . . . . Minneapolis, MN  
Nov 13 . . . . . Santa Clara, CA  
Nov 13 . . . . . Akron, OH  
Nov 20 . . . . . Rochester, NY  
Nov 20 . . . . . Kansas City, MO  
Nov 27 . . . . . Toronto, ON  
Dec 4 . . . . . San Diego, CA  
Dec 4 . . . . . Schaumburg, IL  
Dec 4 . . . . . Pittsburgh, PA  
Dec 11 . . . . . Anaheim, CA  
Dec 11 . . . . . Manchester, NH

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



### TRAINING

- Expert Training in the Latest Technologies
- Industry-Demanded Certifications

### PCB TECHNOLOGY

#### Quality & Inspection

- IPC-A-610 Instructor & Operator Certification

#### Soldering & Assembly

- IPC J-STD-001 Instructor & Operator Certification

#### Bare Board Inspection

- IPC-A-600 Instructor & Operator Certification
- IPC-6012 Instructor & Operator Certification

#### Rework & Repair

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

#### Hand Soldering Skills

- Soldering Basics, Wires & Terminals, Lap Solder Joints, Through-Hole and Surface Mount Training

#### PCB Fundamentals

- Component Identification
- Electrostatic Discharge

#### PCB Design

- IPC Designer & IPC Advanced Designer Certification

### COUNTERFEIT COMPONENTS

#### IDEA-STD-1010

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

### CABLE & WIRE HARNESS TECHNOLOGY

#### Quality & Inspection

- IPC-A-620 Instructor & Operator Certification

#### Hands-On Labs

- Crimping & Harness Assembly Training

### TECHNICAL SUPPORT

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

## J-STD-001 Certified IPC Specialist

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

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

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

### Recertifications (Req. 24 mos.)

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

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

Module 6 covering the 001 Space Addendum.

|        |       |                |
|--------|-------|----------------|
| Jan 31 | ..... | Manchester, NH |
| Feb 17 | ..... | Toronto, ON    |
| Mar 30 | ..... | Manchester, NH |
| May 15 | ..... | Watertown, CT  |
| May 22 | ..... | Rochester, NY  |
| May 29 | ..... | Toronto, ON    |
| Jun 19 | ..... | Manchester, NH |
| Jul 24 | ..... | Manchester, NH |
| Aug 7  | ..... | Watertown, CT  |
| Sep 28 | ..... | Manchester, NH |
| Oct 15 | ..... | San Diego, CA  |
| Nov 13 | ..... | Manchester, NH |
| Nov 20 | ..... | Toronto, ON    |
| Dec 22 | ..... | Manchester, NH |

### Recertifications (Req. 24 mos.)

|        |       |                |
|--------|-------|----------------|
| Jan 31 | ..... | Manchester, NH |
| Feb 17 | ..... | Toronto, ON    |
| Mar 30 | ..... | Manchester, NH |
| May 15 | ..... | Watertown, CT  |
| May 22 | ..... | Rochester, NY  |
| May 29 | ..... | Toronto, ON    |
| Jun 19 | ..... | Manchester, NH |
| Jul 24 | ..... | Manchester, NH |
| Aug 7  | ..... | Watertown, CT  |
| Sep 28 | ..... | Manchester, NH |
| Oct 15 | ..... | San Diego, CA  |
| Nov 13 | ..... | Manchester, NH |
| Nov 20 | ..... | Toronto, ON    |
| Dec 22 | ..... | Manchester, NH |

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







### TRAINING

- Expert Training in the Latest Technologies
- Industry-Demanded Certifications

### PCB TECHNOLOGY

#### Quality & Inspection

- IPC-A-610 Instructor & Operator Certification

#### Soldering & Assembly

- IPC J-STD-001 Instructor & Operator Certification

#### Bare Board Inspection

- IPC-A-600 Instructor & Operator Certification
- IPC-6012 Instructor & Operator Certification

#### Rework & Repair

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

#### Hand Soldering Skills

- Soldering Basics, Wires & Terminals, Lap Solder Joints, Through-Hole and Surface Mount Training

#### PCB Fundamentals

- Component Identification
- Electrostatic Discharge

#### PCB Design

- IPC Designer & IPC Advanced Designer Certification

### COUNTERFEIT COMPONENTS

#### IDEA-STD-1010

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

### CABLE & WIRE HARNESS TECHNOLOGY

#### Quality & Inspection

- IPC-A-620 Instructor & Operator Certification

#### Hands-On Labs

- Crimping & Harness Assembly Training

### TECHNICAL SUPPORT

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

### IPC-7711/7721 Certified IPC Specialist

#### IPC-7711 "Rework of Electronic Assemblies"

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

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

|                |                 |
|----------------|-----------------|
| Jan 6 - 10     | Seattle, WA     |
| Jan 27 - 31    | Minneapolis, MN |
| Jan 27 - 31    | Manchester, NH  |
| Mar 2 - 6      | Watertown, CT   |
| Mar 9 - 13     | Schaumburg, IL  |
| Mar 30 - Apr 3 | Toronto, ON     |
| Apr 20 - 24    | Manchester, NH  |
| May 4 - 8      | Minneapolis, MN |
| Jun 1 - 5      | Seattle, WA     |
| Jun 8 - 12     | Schaumburg, IL  |
| Jun 8 - 12     | Toronto, ON     |
| Jun 15 - 18    | Palm Bay, FL    |
| Jul 20 - 24    | Manchester, NH  |
| Aug 24 - 28    | Manchester, NH  |
| Sep 28 - Oct 2 | Watertown, CT   |
| Oct 19 - 23    | Toronto, ON     |
| Oct 26 - 30    | Schaumburg, IL  |
| Oct 26 - 30    | Manchester, NH  |
| Nov 2 - 6      | Seattle, WA     |
| Nov 16 - 19    | Palm Bay, FL    |
| Nov 30 - Dec 4 | Manchester, NH  |
| Dec 7 - 11     | Minneapolis, MN |
| Dec 14 - 18    | Toronto, ON     |

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

|             |                 |
|-------------|-----------------|
| Jan 2 - 3   | Manchester, NH  |
| Feb 3 - 4   | Palm Bay, FL    |
| Feb 6 - 7   | Manchester, NH  |
| Feb 27 - 28 | Schaumburg, IL  |
| Mar 3 - 4   | Toronto, ON     |
| Mar 12 - 13 | Minneapolis, MN |
| Mar 30 - 31 | Manchester, NH  |
| Apr 23 - 24 | Seattle, WA     |
| May 27 - 28 | Manchester, NH  |
| Jun 22 - 23 | Schaumburg, IL  |
| Jun 22 - 23 | Toronto, ON     |
| Jul 15 - 16 | Minneapolis, MN |
| Aug 6 - 7   | Seattle, WA     |
| Aug 19 - 20 | Manchester, NH  |
| Sep 1 - 2   | Toronto, ON     |
| Sep 2 - 3   | Schaumburg, IL  |
| Sep 29 - 30 | Manchester, NH  |
| Oct 1 - 2   | Manchester, NH  |
| Oct 26 - 27 | Palm Bay, FL    |
| Oct 27 - 28 | Toronto, ON     |
| Nov 9 - 10  | Manchester, NH  |
| Dec 14 - 15 | Schaumburg, IL  |

### IPC-A-600 Certified IPC Specialist

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

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

|                |                 |
|----------------|-----------------|
| Jan 8 - 10     | Schaumburg, IL  |
| Feb 17 - 19    | Manchester, NH  |
| Mar 2 - 4      | Minneapolis, MN |
| Mar 18 - 20    | Toronto, ON     |
| Mar 18 - 20    | San Diego, CA   |
| Mar 25 - 27    | Watertown, CT   |
| Apr 14 - 16    | Seattle, WA     |
| May 27 - 29    | Manchester, NH  |
| Jun 2 - 4      | Minneapolis, MN |
| Jun 29 - Jul 1 | Santa Clara, CA |
| Jul 20 - 22    | Schaumburg, IL  |
| Jul 22 - 24    | Toronto, ON     |
| Sep 2 - 4      | Manchester, NH  |
| Sep 9 - 11     | Seattle, WA     |
| Sep 30 - Oct 2 | San Diego, CA   |
| Oct 14 - 16    | Watertown, CT   |
| Oct 14 - 16    | Toronto, ON     |
| Oct 26 - 28    | Minneapolis, MN |
| Nov 16 - 18    | Manchester, NH  |

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

|                |                 |
|----------------|-----------------|
| Jan 8 - 10     | Schaumburg, IL  |
| Feb 17 - 19    | Manchester, NH  |
| Mar 2 - 4      | Minneapolis, MN |
| Mar 18 - 20    | Toronto, ON     |
| Mar 18 - 20    | San Diego, CA   |
| Mar 25 - 27    | Watertown, CT   |
| Apr 14 - 16    | Seattle, WA     |
| May 27 - 29    | Manchester, NH  |
| Jun 2 - 4      | Minneapolis, MN |
| Jun 10 - 12    | Palm Bay, FL    |
| Jun 29 - Jul 1 | Santa Clara, CA |
| Jul 20 - 22    | Schaumburg, IL  |
| Jul 22 - 24    | Toronto, ON     |
| Sep 2 - 4      | Manchester, NH  |
| Sep 9 - 11     | Seattle, WA     |
| Sep 30 - Oct 2 | San Diego, CA   |
| Oct 14 - 16    | Watertown, CT   |
| Oct 14 - 16    | Toronto, ON     |
| Oct 26 - 28    | Minneapolis, MN |
| Nov 16 - 18    | Manchester, NH  |

### IPC-6012 Certified IPC Specialist

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

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

|                |                 |
|----------------|-----------------|
| Jan 6 - 9      | San Diego, CA   |
| Feb 24 - 27    | Santa Clara, CA |
| Mar 31 - Apr 3 | Manchester, NH  |
| Apr 6 - 9      | Toronto, ON     |
| Apr 27 - 30    | Minneapolis, MN |
| May 11 - 14    | Anaheim, CA     |
| May 18 - 21    | Schaumburg, IL  |
| Jul 7 - 10     | San Diego, CA   |
| Aug 10 - 13    | Manchester, NH  |
| Aug 18 - 21    | Toronto, ON     |
| Aug 24 - 27    | Palm Bay, FL    |
| Sep 22 - 25    | Santa Clara, CA |
| Sep 28 - Oct 1 | Minneapolis, MN |
| Oct 13 - 16    | Schaumburg, IL  |
| Oct 19 - 22    | Manchester, NH  |
| Dec 28 - 31    | Anaheim, CA     |

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

|                |                 |
|----------------|-----------------|
| Jan 6 - 9      | San Diego, CA   |
| Feb 24 - 27    | Santa Clara, CA |
| Mar 31 - Apr 3 | Manchester, NH  |
| Apr 6 - 9      | Toronto, ON     |
| Apr 27 - 30    | Minneapolis, MN |
| May 11 - 14    | Anaheim, CA     |
| May 18 - 21    | Schaumburg, IL  |
| Jul 7 - 10     | San Diego, CA   |
| Aug 10 - 13    | Manchester, NH  |
| Aug 18 - 21    | Toronto, ON     |
| Aug 24 - 27    | Palm Bay, FL    |
| Sep 22 - 25    | Santa Clara, CA |
| Sep 28 - Oct 1 | Minneapolis, MN |
| Oct 13 - 16    | Schaumburg, IL  |
| Oct 19 - 22    | Manchester, NH  |
| Dec 28 - 31    | Anaheim, CA     |

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

### IPC Certified Interconnect Designer

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

This course goes beyond the fundamentals of component placement and track routing to encompass a complete understanding of all the elements that go into the development of a printed circuit board.

|                |                 |
|----------------|-----------------|
| Jan 30 - Feb 2 | San Diego, CA   |
| Feb 25 - 28    | Manchester, NH  |
| Mar 3 - 6      | Santa Clara, CA |
| Mar 17 - 20    | Seattle, WA     |
| Apr 27 - 30    | Toronto, ON     |
| Apr 28 - May 1 | Schaumburg, IL  |
| May 19 - 22    | Pittsburgh, PA  |
| Jun 23 - 26    | Seattle, WA     |
| Aug 4 - 7      | Baltimore, MD   |
| Sep 12 - 15    | Santa Clara, CA |
| Oct 3 - 6      | San Diego, CA   |
| Oct 27 - 30    | Anaheim, CA     |
| Nov 3 - 6      | Dallas, TX      |
| Nov 7 - 10     | Raleigh, NC     |

### IPC Advanced Certified Interconnect Designer

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

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

|                |                 |
|----------------|-----------------|
| Jan 30 - Feb 2 | San Diego, CA   |
| Mar 3 - 6      | Santa Clara, CA |
| Mar 23 - 26    | Seattle, WA     |
| May 19 - 22    | Pittsburgh, PA  |
| Jun 1 - 4      | Schaumburg, IL  |
| Aug 24 - 27    | Seattle, WA     |
| Aug 25 - 28    | Toronto, ON     |
| Sep 12 - 15    | Santa Clara, CA |
| Sep 22 - 25    | Schaumburg, IL  |
| Oct 3 - 6      | San Diego, CA   |
| Oct 27 - 30    | Anaheim, CA     |
| Nov 7 - 10     | Raleigh, NC     |
| Dec 1 - 4      | Manchester, NH  |





### 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.**

Jan 6 - 10 . . . . . Santa Clara, CA  
 Jan 6 - 10 . . . . . Minneapolis, MN  
 Jan 6 - 10 . . . . . Syracuse, NY  
 Jan 13 - 17 . . . . . Manchester, NH  
 Jan 13 - 17 . . . . . Toronto, ON  
 Jan 13 - 17 . . . . . Seattle, WA  
 Jan 20 - 24 . . . . . Anaheim, CA  
 Jan 27 - 31 . . . . . Rochester, NY  
 Feb 3 - 7 . . . . . San Diego, CA  
 Feb 3 - 7 . . . . . Binghamton, NY  
 Feb 3 - 7 . . . . . Long Island, NY  
 Feb 10 - 14 . . . . . Schaumburg, IL  
 Feb 10 - 14 . . . . . Manchester, NH  
 Feb 17 - 21 . . . . . Buffalo, NY  
 Mar 9 - 13 . . . . . Watertown, CT  
 Mar 16 - 20 . . . . . Manchester, NH  
 Mar 23 - 27 . . . . . Schaumburg, IL  
 Mar 23 - 27 . . . . . Toronto, ON  
 Apr 6 - 10 . . . . . Palm Bay, FL  
 Apr 6 - 10 . . . . . Kansas City, MO  
 Apr 13 - 17 . . . . . Minneapolis, MN  
 Apr 13 - 17 . . . . . Manchester, NH  
 Apr 13 - 17 . . . . . Syracuse, NY  
 Apr 20 - 24 . . . . . Anaheim, CA  
 Apr 20 - 24 . . . . . Rochester, NY  
 Apr 20 - 24 . . . . . Pittsburgh, PA  
 May 4 - 8 . . . . . Schaumburg, IL  
 May 4 - 8 . . . . . Ottawa, ON  
 May 11 - 15 . . . . . Santa Clara, CA  
 May 11 - 15 . . . . . Manchester, NH  
 May 11 - 15 . . . . . Toronto, ON  
 May 18 - 22 . . . . . San Diego, CA  
 May 18 - 22 . . . . . Buffalo, NY  
 Jun 1 - 5 . . . . . Atlanta Metro, GA  
 Jun 8 - 12 . . . . . Binghamton, NY  
 Jun 15 - 19 . . . . . Watertown, CT  
 Jun 15 - 19 . . . . . Manchester, NH  
 Jul 6 - 10 . . . . . Palm Bay, FL  
 Jul 13 - 17 . . . . . Manchester, NH  
 Jul 20 - 24 . . . . . Minneapolis, MN  
 Jul 20 - 24 . . . . . Pittsburgh, PA  
 Jul 20 - 24 . . . . . Seattle, WA  
 Jul 27 - 31 . . . . . Rochester, NY  
 Jul 27 - 31 . . . . . Toronto, ON  
 Aug 3 - 7 . . . . . Anaheim, CA  
 Aug 3 - 7 . . . . . Buffalo, NY  
 Aug 10 - 14 . . . . . Schaumburg, IL  
 Aug 10 - 14 . . . . . Manchester, NH  
 Aug 17 - 21 . . . . . San Diego, CA

Aug 17 - 21 . . . . . Long Island, NY  
 Sep 14 - 18 . . . . . Kansas City, MO  
 Sep 14 - 18 . . . . . Manchester, NH  
 Sep 21 - 25 . . . . . Atlanta Metro, GA  
 Sep 21 - 25 . . . . . Watertown, CT  
 Sep 21 - 25 . . . . . Toronto, ON  
 Sep 28 - Oct 2 . . . . . Ottawa, ON  
 Sep 28 - Oct 2 . . . . . Santa Clara, CA  
 Oct 12 - 16 . . . . . Minneapolis, MN  
 Oct 12 - 16 . . . . . Manchester, NH  
 Oct 12 - 16 . . . . . Syracuse, NY  
 Oct 19 - 23 . . . . . Palm Bay, FL  
 Oct 19 - 23 . . . . . Pittsburgh, PA  
 Oct 26 - 30 . . . . . Binghamton, NY  
 Nov 2 - 6 . . . . . San Diego, CA  
 Nov 9 - 13 . . . . . Anaheim, CA  
 Nov 9 - 13 . . . . . Buffalo, NY  
 Nov 16 - 20 . . . . . Schaumburg, IL  
 Nov 16 - 20 . . . . . Manchester, NH  
 Nov 30 - Dec 4 . . . . . Rochester, NY  
 Dec 7 - 11 . . . . . Atlanta Metro, GA  
 Dec 7 - 11 . . . . . Watertown, CT  
 Dec 7 - 11 . . . . . Seattle, WA  
 Dec 14 - 18 . . . . . Santa Clara, CA  
 Dec 14 - 18 . . . . . Manchester, NH

#### Recertifications

Jan 10 . . . . . Kansas City, MO  
 Jan 10 . . . . . Manchester, NH  
 Jan 17 . . . . . San Diego, CA  
 Jan 27 . . . . . Toronto, ON  
 Feb 14 . . . . . Anaheim, CA  
 Feb 21 . . . . . Manchester, NH  
 Mar 6 . . . . . Manchester, NH  
 Apr 3 . . . . . Manchester, NH  
 Apr 10 . . . . . Schaumburg, IL  
 Apr 17 . . . . . Watertown, CT  
 May 8 . . . . . Manchester, NH  
 Jun 12 . . . . . Manchester, NH  
 Jun 26 . . . . . Toronto, ON  
 Jul 6 . . . . . Manchester, NH  
 Jul 17 . . . . . Anaheim, CA  
 Aug 21 . . . . . Manchester, NH  
 Oct 9 . . . . . Manchester, NH  
 Oct 12 . . . . . San Diego, CA  
 Oct 26 . . . . . Toronto, ON  
 Nov 2 . . . . . Schaumburg, IL  
 Nov 13 . . . . . Manchester, NH  
 Dec 21 . . . . . Santa Clara, CA

## IDEA Counterfeit Component Workshop

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

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

Mar 18 . . . . . Schaumburg, IL  
 Jun 8 . . . . . Peabody, MA  
 Jun 12 . . . . . San Diego, CA  
 Jul 17 . . . . . Seattle, WA

## IDEA-STD-1010 Essentials

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

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

Feb 5 - 6 . . . . . Peabody, MA  
 Mar 10 - 11 . . . . . Minneapolis, MN  
 Mar 31 - Apr 1 . . . . . San Diego, CA  
 May 28 - 29 . . . . . Anaheim, CA  
 Jun 4 - 5 . . . . . Palm Bay, FL  
 Sep 28 - 29 . . . . . Schaumburg, IL  
 Sep 24 - 25 . . . . . Peabody, MA  
 Oct 6 - 7 . . . . . Anaheim, CA  
 Dec 10 - 11 . . . . . San Diego, CA

## Advanced Micro Hand Soldering Certification

Feb 5 - 6 . . . . . Minneapolis, MN  
 Mar 4 - 5 . . . . . Manchester, NH  
 Mar 16 - 17 . . . . . Schaumburg, IL  
 Apr 27 - 28 . . . . . Seattle, WA  
 Jun 29 - 30 . . . . . Schaumburg, IL  
 Jul 9 - 10 . . . . . Minneapolis, MN  
 Aug 4 - 5 . . . . . Seattle, WA  
 Aug 17 - 18 . . . . . Manchester, NH  
 Sep 30 - Oct 1 . . . . . Schaumburg, IL  
 Oct 20 - 21 . . . . . Minneapolis, MN  
 Nov 9 - 10 . . . . . Seattle, WA  
 Dec 16 - 17 . . . . . Schaumburg, IL

## Component Identification Training

### EPTAC's Component ID Training Program

Mar 27 . . . . . Manchester, NH  
 Jul 6 . . . . . Manchester, NH  
 Oct 19 . . . . . Manchester, NH

## Crimp Terminations Certification

### IPC/WHMA-A-620

#### "Requirements and Acceptance for Cable and Wire Harness Assemblies"

*EPTAC's Hand Crimp Termination Program*

Jan 2 . . . . . Manchester, NH  
 Apr 24 . . . . . Manchester, NH  
 Aug 14 . . . . . Manchester, NH  
 Dec 21 . . . . . Manchester, NH

## Electrostatic Discharge Training

### EPTAC's ESD Training Program

Feb 7 . . . . . Manchester, NH  
 Jun 8 . . . . . Manchester, NH  
 Oct 2 . . . . . Manchester, NH

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