Your Satisfaction is our Goal

Let us assist you with your training and certification along with the products that support your training needs.
# 2019 Omni Training Schedule

## IPC Instructor and Specialist Certification Courses

### IPC-A-610 CIT Certification Course
- MAR 18-21
- MAY 28-31
- JUL 29-AUG 1
- SEP 16-19
- NOV 12-15

### IPC-A-610 CIT Recertification Course
- FEB 11-12
- MAR 4-5
- APR 8-9
- MAY 6-7
- JUN 10-11
- JUL 8-9
- AUG 5-6
- SEP 9-10
- OCT 14-15
- NOV 4-5
- DEC 9-10

### IPC-A-610 CIS Certification Course (on-site available)
- FEB 27-MAR 1

### J-STD-001 CIT Certification Course
- JAN 21-25
- MAR 11-15
- APR 15-19
- MAY 13-17
- JUN 17-21
- JUL 15-19
- AUG 12-16
- SEP 23-27
- OCT 21-25
- NOV 18-22
- DEC 16-20

### J-STD-001 CIT Recertification Course
- FEB 13-14
- MAR 6-7
- APR 10-11
- MAY 8-9
- JUN 12-13
- JUL 10-11
- AUG 7-8
- SEP 11-12
- OCT 16-17
- NOV 6-7
- DEC 11-12

### J-STD-001 CIS Certification Course
- JAN 14-17
- MAR 18-21
- MAY 28-31
- OCT 28-31

### J-STD-001 CIS Recertification Course - TBD (on-site available)
- FEB 15
- MAR 8
- APR 12
- MAY 10
- JUN 12
- JUL 12
- AUG 9
- SEP 13
- OCT 18
- NOV 8
- DEC 13

### IPC-7711/7721 CIT Certification Course
- MAR 25-29
- MAY 20-24
- AUG 19-23

### IPC-7711/7721 CIT Recertification Course
- FEB 25-26
- APR 29-30
- JUL 29-30
- AUG 29-30
- NOV 25-26

### IPC-7711/7721 CIS Certification Course - TBD (on-site available)
- FEB 1
- APR 5
- JUL 3
- JUL 26
- AUG 28
- SEP 5
- OCT 11

### IPC/WHMA-A-620 CIT Certification Course
- JAN 28-31
- APR 1-4
- JUL 22-25
- OCT 7-10

### IPC/WHMA-A-620 CIT Recertification
- APR 22-23
- JUN 24-25
- JUL 1-2
- AUG 26-27
- SEP 3-4
- DEC 23-24

### IPC/WHMA-A-620 “Hands-on” Certification Course
- FEB 1
- APR 5
- JUL 3
- JUL 26
- AUG 28
- SEP 5
- OCT 11

### IPC/WHMA-A-620 CIS Certification Course
- OCT 24-26

### IPC/WHMA-A-620 Space Addendum Certification Course
- FEB 18-22
- JUN 3-7
- DEC 2-6

### IPC-A-600 CIS Certification Course - TBD (on-site available)
- OCT 15-17

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## Omni Training “Skills Intensive” Hands-on Courses

### Operator, Inspector & Train-the-Trainer Certification covering various IPC documents

**OMNI TRAINING “Skills-intensive” Train-the-Trainer Certification**
- FEB 4-8
- APR 22-26
- JUN 24-28
- SEP 30-OCT 4

**OMNI TRAINING “Skills-intensive” Train-the-Trainer Recertification**
- TBD

**OMNI TRAINING “Skills-intensive” Operator/Inspector Certification**
- FEB 4-8
- APR 22-26
- JUN 24-28
- SEP 30-OCT 4
HOTEL RECOMMENDATIONS

**Ayers Suites Ontario at Mills Mall**
(location “C” on map)
4370 Mills Circle Ontario, CA 91764 (909) 481-0703
All rooms Celestial Sleeper bed and enjoy modern lifestyle comforts including a flat screen TV, refrigerator, microwave, and complimentary WiFi.

*NOTE: Shuttle transportation to and from classes at Omni Training is available for a slightly higher fee.*

**Residence Inn by Marriott**
(location "A" on map)
2025 Convention Center Way Ontario, CA 91764 (909) 937-6788
*Discount for Omni Training Students*
Fully equipped kitchens, high speed internet access, hot breakfast, airport shuttle service, outdoor BBQ and pool, laundry facilities, grocery

**Hyatt Place**
(location “B” on map)
4760 Mills Circle Ontario, CA 91764 (909) 980-2200
All suites hotel. All rooms include microwave, coffee maker with coffee, refrigerator, ironing board with iron, free HBO & ESPN, complimentary breakfast buffet, pool, fitness center, laundry facility, complimentary shuttle to and from Ontario airport.

**Holiday Inn Express** (location “D” on map)
2280 S Haven Avenue, Ontario, CA 91761 844-442-1841
Featured amenities include a business center, complimentary newspapers in the lobby, and dry cleaning/laundry services. A roundtrip airport shuttle is provided at no charge. All rooms feature refrigerators and microwaves. Flat-screen televisions with satellite programming provide entertainment, while complimentary wireless Internet access keeps you connected. Conveniences include safes and desks, as well as phones with free local calls.

Call for details on complimentary shuttle from local airport, hotel & Omni.
IPC-A-610 Certification Courses

These comprehensive programs supply electronics manufacturers with a uniform method for training and certifying their staff with the knowledge & comprehension of the requirements of **IPC-A-610 Acceptability of Electronic Assemblies.**

### CERTIFIED IPC TRAINER (CIT)

**CIT CERTIFICATION:**
The IPC-A-610 Certified IPC Trainer Training & Certification Course is an extensive four (4) day paragraph-by-paragraph review of the IPC-A-610 document. At the conclusion of the Course, students will be subjected to open and closed book written exams. Students who successfully complete this Course are awarded an IPC-A-610 Certified IPC Trainer Certification, valid for two (2) years, authorized to conduct the Certified IPC Application Specialist (CIS) course.

**COURSE MATERIALS:**
Students successfully completing this Course will receive: IPC-A-610 Standard and other documents as dictated by IPC.

**CIT RECERTIFICATION:**
The IPC-A-610 Certified IPC Trainer Recertification Course is a two (2) day review of the IPC-A-610 Standard. At the conclusion of the Course, students will be subjected to open and closed book written examinations. Students who successfully complete this Course are awarded an IPC-A-610 Certified IPC Trainer Certification valid for two (2) years and are authorized to conduct the Certified IPC Application Specialist Certification Course.

**WHO SHOULD ATTEND:**
Ideal candidates for this course can include anyone responsible for Training and/or Quality and should have a background in electronic assembly and tasked to conduct the IPC-A-610 Certified IPC Specialist Course.

### CERTIFIED IPC SPECIALIST (CIS)

**CIS CERTIFICATION:**
The IPC-A-610 Certified IPC Application Specialist Course is an extensive up-to three (3) day paragraph-by-paragraph review of the IPC-A-610 Standard. Consists of nine modules (7 optional). At the conclusion of the Course, students will be subjected to open book written examinations. Contact Omni Training to discuss how this training and certifications can be performed by our experienced instructors on-site at your facility.

**COURSE MATERIALS:**
Students will use be using: IPC-A-610 Standard. Those who successfully pass will be awarded an IPC-A-610 Certified IPC Specialist Certification valid for two (2) years.

**MODULES:**
Module 1: Introduction/IPC Professional Training Policies & Procedures
Module 2: Foreword, Applicable Documents & Handling
Module 3: Hardware
Module 4: Soldering (High Voltage)
Module 5: Terminal Connections
Module 6: Through-hole Technology
Module 7: Surface Mount Assemblies
Module 8: Component Damage and PCBs & Assemblies
Module 9: Wire Wrap

**WHO SHOULD ATTEND:**
Ideal candidates for this Course are Production/ Rework Operators, Inspectors, Technicians, Quality Control, Manufacturing and Process Engineers and Management personnel who desire to comprehend the proper explanation and interpretation of the requirements of the IPC-A-610.

Scheduled dates are found on page two of this catalog.
J-STD-001 Certification Courses

This comprehensive program provides electronics manufacturers a uniform method for training and certifying their staff’s comprehension of the requirements of J-STD-001 Requirements for Soldered Electrical and Electronic Assemblies and hand soldering skills.

CERTIFIED IPC TRAINER (CIT)

CIT CERTIFICATION:
The Certified IPC Trainer Course is a comprehensive five (5) day course providing a review of the document and hands-on soldering training addressing Wire Preparation, Terminals, Through-hole and Surface Mount Technology (SMT). At the conclusion of the Course, students will be subjected to written examinations and must assemble and solder acceptable workmanship samples. Students who successfully complete this course are awarded an IPC Registered Instructor Certification valid for two (2) years.

COURSE MATERIALS:
Students successfully completing the IPC document for this course and other necessary training materials as designated by IPC as well as the Omni Training Soldering Training Kit required for workmanship samples.

CIT RECERTIFICATION:
The J-STD-001 Recertification Course is a two (2) day review of the Standard. Students will be subjected to written examinations and must assemble and solder acceptable workmanship samples.

WHO SHOULD ATTEND:
Ideal candidates for this course can include anyone responsible for Training and/or Quality and should have a background in electronic assembly, good hand dexterity and tasked to conduct the J-STD-001 Certified IPC Specialist Course.

CERTIFIED IPC SPECIALIST (CIS)

CIS CERTIFICATION:
This CIS course is modularized, consisting of five (5) separate modules. The course duration ranges from two (2) to five (5) days depending on skills and knowledge required by the individual student. Students will be required to pass written open book exams and, if applicable, assemble and solder acceptable workmanship samples. Also available is Module 6 Space Addendum for Space Hardware. Contact Omni Training to discuss how this training and certifications can be performed by our experienced instructors on-site at your facility.

COURSE MATERIALS:
Students will be using: J-STD-001 Standard and the required components to perform the required hands-on assembly and soldering. Those who successfully pass are awarded a J-STD-001 Certified IPC Application Specialist Certification, valid for two (2) years.

MODULES:
Module 1: Specification review
Module 2: (Optional) Requirements for wire preparation, installation, assembly & soldering of terminals. Includes hands-on.
Module 3: (Optional) Requirements for assembly & soldering of through-hole assemblies. Includes hands-on.
Module 4: (Optional) Requirements for assembly & soldering of SMT assemblies. Includes hands-on.
Module 5: (Optional) Inspection. Requirements for wire preparation, installation, assembly & soldering of terminals, through-hole and SMT assemblies.
Module 6: (Optional) Space Addendum.

WHO SHOULD ATTEND:
The ideal candidates are personnel who desire to expand their comprehension

Now certifying to Space Addendum.
See page 8 for details.

Call for details on complimentary shuttle from local airport, hotel & Omni.
IPC/WHMA-A-620 Certification

This program provides electronics manufacturers with a uniform means of certifying their manufacturing personnel to the requirements of IPC/WHMA-A-620 Requirements and Acceptance for Cable and Wire Harness Assemblies.

CERTIFIED IPC TRAINER (CIT)

CIT CERTIFICATION:
The IPC/WHMA-A-620 Certified IPC Trainer Certification course consists of a four (4) day (32 hour) program of paragraph-by-paragraph review of the IPC/WHMA-A-620 document. At the conclusion of the course, students will be subjected to open and closed book written examinations. Students who successfully complete the course are awarded an IPC/WHMA-A-620 Certified IPC Trainer Certification valid for two (2) years and are authorized to conduct the Certified IPC Specialist Course.

COURSE MATERIALS:
Students successfully completing the IPC document for this course and other necessary training materials as designated by IPC.

CIT RECERTIFICATION:
The IPC/WHMA-A-620 Recertification course is a two (2) day review of the IPC/WHMA-A-620 document. Students will be subjected to written examinations.

WHO SHOULD ATTEND:
Ideal candidates for this Course can include anyone responsible for Training and/or Quality and should have a background in electronic assembly and tasked to conduct the IPC/WHMA-A-620 Certified IPC Specialist Certification Course.

CERTIFIED IPC SPECIALIST (CIS)

CIS CERTIFICATION:
The IPC/WHMA-A-620 Certified IPC Specialist training consists of eight (8) separate modules, 7 of which are optional, of paragraph-by-paragraph review of IPC/WHMA-A-620. At the conclusion of each module, students are subjected to open book exams. Contact Omni Training to discuss how this training and certifications can be performed by our experienced instructors on-site at your facility.

COURSE MATERIALS:
Successful candidates receive a IPC/WHMA-A-620 document and will be awarded a Certified IPC Application Specialist (CIS) certificate valid for two (2) years.

Module 1 (mandatory)
- Policies and Procedures
- 1-Forward
- 3-Preparation
- 11-Cable Assemblies & Wires
- 19-Test

Module 2
- 5-Crimp Terminations
- 6-Insulation Displacement Connections (IDC)

Module 3
- 4-Soldered Terminations

Module 4
- 9-Connectorization
- 10-Molding/Potting

Module 5
- 8-Splices

Module 6
- 12-Marking and Labeling
- 14-Wire Bundle Securing
- 15-Shielding

Module 7
- 16-Cable/Wire Harness Protective Coverings
- 17-Finished Assembly Installation

Module 8
- 13-Coaxial and Twinaxial Cable Assemblies
- Solderless Wrap

WHO SHOULD ATTEND:
Ideal candidates for this Course are Production/ Rework Operators, Inspectors, Technicians, Quality Control, Manufacturing and Process Engineers and Management personnel who desire to comprehend the proper explanation and interpretation of the requirements of the IPC/WHMA-A-620.

Now offering training & certification to the Space Addendum. See page 8 for details

Scheduled dates are found on page two of this catalog.
IPC-7711/7721 Certification Courses

This comprehensive program provides electronics manufacturers a uniform method for training and certifying their staff’s comprehension of the guidelines of, and development of skills pertaining to IPC-7711/7721 Rework, Modification and Repair of Electronic Assemblies.

CERTIFIED IPC TRAINER (CIT)

CIT CERTIFICATION:
The IPC-7711/7721 Certified IPC Trainer Course is a comprehensive five (5) day course addressing review of the Standards and hands-on training of Rework and Repair Techniques for Printed Boards and Electronic Assemblies. At the conclusion of the Course, students will be subjected to written examinations and must rework, repair and modify acceptable workmanship samples. Students who successfully complete this Course are awarded an IPC-7711/7721 Certified IPC Trainer Certification valid for two (2) years.

COURSE MATERIALS:
Students successfully completing the IPC document for this course and other necessary training materials as designated by IPC, as well as the Omni Training Soldering Training Kit required for workmanship samples.

TOPICS ADDRESSED:
- Wire Splicing
- Jumper Wires
- Through-hole Component Remove/Replace
- Chip & MELF Component Remove/Replace
- SOIC Component Removal/Replacement
- SOT Component Removal/Replacement
- J-leaded Component Removal/Replacement
- QFP Component Removal/Replacement
- PWB Circuit Repair
- Laminate Repair

WHO SHOULD ATTEND:
Ideal candidates should have a background in electronic assembly, good hand dexterity, and been tasked to conduct IPC-7711/7721 Certified IPC Specialist Certification Course.

CERTIFIED IPC SPECIALIST (CIS)

CIS CERTIFICATION:
The IPC-7711/7721 Certified IPC Specialist Course is modularized with the duration ranging from two (2) to seven (7) days depending on skills and knowledge required by the individual student. Students must rework, repair and modify acceptable workmanship samples. Contact Omni Training to discuss how this training and certifications can be performed by our experienced instructors on-site at your facility.

COURSE MATERIALS:
Successful candidates receive an IPC-7711/7721 document, soldering training kit and will be awarded a CIS certificate valid for two (2) years.

MODULES:
- Module 1 General Knowledge (Mandatory)
- Module 2 Wire Skills (Wire Splice)
- Module 3 Through-hole Component Removal/Replacement
- Module 4 SMT Chips Removal/Replacement
- Module 5 SOT and Gull wing Removal/Replacement
- Module 6 Leaded QFP & J-Leaded Removal/Replacement
- Module 7 Printed Wiring (Trace Repair & Jumper Wires)
- Module 8 Laminate Repair (Board Repair)
- Module 9 Coating Materials (Conformal Coating)

WHO SHOULD ATTEND:
The ideal candidates for this course are Production/Rework Operators, Inspectors, Technicians, Quality Control, Manufacturing and Process Engineers and Management personnel who desire to expand their comprehension of the rework and repair techniques in the IPC-7711/7721 Standards and receive verification of their hand rework and repair skills.

IPC-A-600 Certification Course

CIS CERTIFICATION:
This CIS course is modularized, consisting of five (5) separate modules. The course duration is typically up-to a three day class. Students are subject to an open book examination at the conclusion of each module. Contact Omni Training to discuss how this training and certifications can be performed by our experienced instructors on-site at your facility.

COURSE MATERIALS:
Participation in this course requires the use of an IPC-A-600 document.

MODULES:
- Module 3 (Optional) – External Observable Conditions
- Module 4 (Optional) – Internally Observable Conditions
- Module 5 (Optional) – Flex Circuits, Metal Core, Misc.

Call for details on complimentary shuttle from local airport, hotel & Omni.
Space Addendum Courses

IPC/WHMA-A-620 SPACE ADDENDUM CERTIFICATION COURSE

This Space Addendum training & certification program accompanies the IPC/WHMA-A-620 “Requirements and Acceptance for Cable and Wire Harness Assemblies” with a hands-on module. This five-day course begins with a one-day review of the Space Addendum, followed by four days of intensive hands-on training, leading the participant through many of the associated tasks of cable & harnessing, used in space hardware.

All candidates must be currently certified to IPC/WHMA-A-620. Basic skills and general knowledge of tools are recommended but not required. Our instructors will explain the details and walk the participant through each exercise with thorough demonstrations and guidance.

Day One will include a review and testing to the IPC/WHMA-A-620 document and the Space Addendum, focusing on those clauses it affects. Days Two through Five consist of graded hands-on lab sessions, requiring reading assembly drawings, following work instructions, as well as assembly & soldering a variety of space hardware, including but not limited to:

- Coax cable and assembly
- Crimping / pull testing
- Spot ties and tie wraps
- IDC connectors
- Shielding and shield termination
- Floating shields and lash splices
- Protective covering and heat shrink
- Solder Sleeves
- Contact insertion and retention
- Chassis assembly and connector termination

J-STD-001 SPACE ADDENDUM COURSE

This course is available for both CIT (Certified IPC Trainer) and CIS (Certified IPC Application Specialist) levels. It offers the credential of IPC certification to the Space Addendum to J-STD-001. The course consists of a thorough review of the requirements for Space Applications Electronic Hardware.

This course concludes with a written exam and includes documented certification and a copy of the Space Addendum document.

As a prerequisite, all candidates are required to be currently certified to J-STD-001. Topics covered, include the concerns associated with additional requirements to ensure the reliability of soldered electrical and electronic assemblies that must survive the vibration and thermal cyclic environments getting to and operating in space. The majority of the class will address Table 1, which details the clauses affected by this addendum.
Omni Training Proficiency Certification Course, with Train-the-Trainer Session

Many traditional classes today are tied to one specification and/or skill. This Omni Training Proficiency Certification is a “skills intensive” course, designed to accomplish four main objectives:

1. HANDS-ON SKILLS: Students are provided with “skills-intensive” hands-on training, covering the assembly and soldering tasks listed below with lab exercises that will be inspected and graded to assure work is acceptable to Class 3 levels of the quality in the standards that are taught. Each exercise begins with instructor demonstrations, followed by step-by-step practical assembly and soldering and critique of workmanship.

2. LEARNING STANDARDS: This course will include a mixture of lecture, quizzes, and videos, along with various details covered in a PowerPoint presentation, while students follow along with all the necessary standards to use during the class. The documentation covered is an amalgamation of some of the major industry standards used in electrical and electronics assemblies. This is designed for students to become familiar the role of the standards in manufacturing, while receiving an overview of requirements and criteria, with more in-depth details of the topics covered in this course.

3. CERTIFICATION CREDENTIAL: Omni Training has offered this Omni Certification as an independent 3rd party credential required by many contracts for over 40 years. This course provides both inspectors and assembler/solder operator a certification that documents they have received training and passed written and inspection examinations that prove their proficiency. Additionally the final optional section of the class equips the trainer with a recognized trainer certification.

4. TRAIN-THE-TRAINER PROGRAM: This is an optional 4 hour session takes the preceding week of instruction and prepares a qualified individual to return to the workplace to offer in-house training for their associates. Topics covered include communication skills, performing demonstrations, training records, development of course outlines, training objectives and more. The only prerequisites for this additional certification is to have good communication skills and credibility with their peers.

COURSE OVERVIEW & SCHEDULE

DAY ONE:
Solder theory, Intro to Lead-free, “5S”, ESD, Lead-free hands-on Wires & Terminals overview

DAY TWO:
Lead-free soldering with mixed technology overview. Overview of Cable and harnessing.

DAY THREE:
In-depth Wires, Terminals, Crimping & Through-hole assembly and rework. Review of applicable IPC workmanship criteria and Rework/Repair Guidelines.

DAY FOUR:
In-depth SMT Rework, PCB (printed circuit board) inspection and repair, including a review of applicable IPC workmanship criteria and Rework/Repair Guidelines.

DAY FIVE:
PCB repair topics, including a review of applicable Rework/Repair Guidelines.

TRAIN-THE-TRAINER SESSION:
Thorough discussion of training methods & techniques. Presentations will include technical demonstration preparation, equipment considerations and concerns. Other topics include training records, discovering students learning styles, development of a custom training curriculum and many more. The class concludes with a training workshop where participants will exercise their training skills in both communication and skills training demonstration. Learn from the experts.
OMNI “5S” ORGANIZER

The Omni 5S Organizer should have been invented years ago. It puts everything you need at your fingertips and makes organizing your work area simple. It also improves efficiency and adds to an ESD safe environment. Thanks for the great product!”  Joseph B., Regional Training Coordinator, Louisiana

Available with and without tools

* Increases productivity reducing times spent looking for tools
* 5S compliant (Sort, Straighten, Shine, Standardize & Sustain)
* Improves aesthetic appearance of workstation
* Organizes assembly and workstations and classrooms
* Decreases shrinkage by aiding in end-of-shift accountability
* Fitted for wire strippers, cutters, needle and round nose pliers and other hand tools, soldering iron tips of most brands & sizes, solvent and flux dispenser, pencils/pens, tweezers, lead forming tools UC inserter, solder wick tools, soldering aid, flux pen, pen-vac, Exacto knife, dental probes, eye loupe and others.
* Includes two small cup openings for holding parts, hardware, terminals, finger cots and/or clippings.
  * Drip tray slot for solvent brushes
  * Constructed of durable Conductive ESD Safe material ANSI/ESD

Are you tasked with setting up a training classroom or assembly/soldering area? Let Omni take the difficulty out of this project. The total package can be purchased from one source, including soldering aids and hand tools. Our original design Terminal Holder and Omni “5S” Organizers are just the solutions for assembly & classroom workstations.

Call (909) 941-9495 for details on quantity discounts

TH-1 TERMINAL HOLDER

The original Omni Terminal Holder was designed by Omni Training in 1985 to accommodate the five terminals traditionally used in most soldering courses. These terminals simulate various connectors, switches, potentiometers, etc. This one-piece, heat resistant device will allow the turret, bifurcated, pierced, hook and cup terminals to be held in place using a vise during soldering processes with no nuts or bolts to manipulate.

Call (909) 941-9495 for details on quantity discounts
Printed Circuit Boards

TB-3 Through-Hole
Originally designed in 1976 by Omni Training, this training board was used in military and commercial courses as a through-hole assembly with an introduction to SMT with flat-packs.

TB-4 FP Fine Pitch SMT
The TB-4 Fine Pitch is designed to provide practice training sessions dedicated to surface mount assembly, soldering and rework. Everything from 1206 chip components to 25 mil pitch quad flat packs and everything in between on both sides of the board.

TB-5F Supplemental Board
For those who have a supply of the TK-15 Training kit in stock, the TB-5F board can supplement that kit, making it possible to use in the training to Revision F workmanship classes.

TB-6 J-STD-001 Certification
This IPC designed board has been used for certification to Modules 3 and 4 of J-STD-001 since its inception. With an equal mixture of through-hole and SMT as well as two wire to through-hole applications.

TB-LEAD FREE
The Omni TB-Lead-free training board was designed for a one to two day course allowing plenty of practice exercises in through-hole and SMT without the repetition of specific parts. The student can begin with axial leaded components and work their way to fine pitch multi-leaded SMT devices. There’s even pads on the back side for circuit repair practice.

TB-7C IPC-7711/7721 Certification
The IPC-7711/7721 Rework and Repair IPC Certification course uses these boards for the hands-on modules that cover removal and replacement of various components, as well as circuit and laminate repair.
(both sides of board shown)

Let us know if you have any custom requirements.
Solder Training Kits

TK-3 Wires & Terminals Kit

Ideal for initial training of soldering operators with five different terminal types and two different wire gages to allow students the opportunity to refine their assembly and soldering skills.

**Qty Description**
- 10 Turret Terminals
- 10 Bifurcated Terminals
- 10 Hook Terminals
- 10 Pierced Terminals
- 10 Cup Terminals
- 10' Stranded Wire 22 AWG
- 10' Stranded Wire 26 AWG

TK-1 Wires, Terminals & Through-hole Kit

Ideal for initial training of soldering operators. Sufficient components & PCB’s provided for students to assemble and solder workmanship samples. Contains most of the conventional through-hole components utilizing supported holes with and without thermal planes to simulate multi-layer challenges.

**Qty Description**
- 10 Turret Terminals
- 10 Bifurcated Terminals
- 10 Hook Terminals
- 10 Pierced Terminals
- 10 Cup Terminals
- 10' Stranded Wire 22 AWG
- 10' Stranded Wire 26 AWG
- 2 PCBs
- 10 TO5 Transistors
- 4 TO18 Transistors
- 14 TO5/TO18 Transistor Spacers
- 20 Resistors 1/4 Watt
- 12 Resistors 1/2 Watt
- 10 Axial Diodes
- 20 Radial Capacitors

TK-1 Pre-employment Screening/Recertification Through-hole

Ideal for recertification training of soldering operators and pre-employment screening. Sufficient components for students to assemble and solder workmanship samples. Contains a sample of the conventional through-hole components utilizing supported holes with and without thermal planes to simulate multi-layer challenges.

**Qty Description**
- 1 PCB
- 3 TO5 Transistors
- 3 TO5/TO18 Transistor Spacers
- 7 Resistors 1/4 Watt
- 2 CK05 Capacitors
- 2 DIP IC 16 Lead
- 1 SO5 SOLIC 14 Lead

TK-15F J-STD-001 Supplemental Kit

This kit supplements existing TK-15 kits, making it possible to teach Revision F curriculum and workmanship requirements without having to purchase the new TB-6 Training Boards or newly implemented components.

**Qty Description**
- 2 PCBs
- 4 Bottom Thermal Plane
- 4 0402 Chips
- 4 100 lead 20 mil Pitch QFPs

TK-16 IPC

**J-STD-001 Certification Kit**

The TK-16 IPC Certification Kit provides two TB-6 PCB’s and the necessary wires, terminals, through-hole and SMT components for students to assemble and solder both practice and final workmanship samples. This kit supplies students with sufficient training materials for the required IPC certification to J-STD-001.
**Solder Training Kits**

**TK-Lead-Free Mixed Technology Certification Kit**

The perfect tool for teaching solder operators and inspectors lessons on lead-free soldering. This mixed technology assembly incorporates a wide variety of through-hole and surface mount applications, including axial and radial leaded devices, leaded and non-leaded surface mounted components. Ideal for assembly rework, as well as extra circuit traces and lands for board repair.

**TK-18C IPC-7711/7721 Certification Kit**

The TK-18C Kit provides the assembled TB-7C Through-hole & SMT PCBs with the wires, terminals and components for student exercises that are required to accomplish the IPC-7711/7721 Rework, Modification & Repair certification. Equipped with a variety of components for removal & replacement with jumper wires and conformally coated section.

**TK-30 SMT Kit**

The TK-30 SMT training kit will be sufficient for recertification and verification of the basic skills of the soldering operator for SMT assembly and rework.

**TK-20 Fine Pitch SMT Kit**

Ideal for initial training of soldering operators with five different terminal types and two different wire gages to allow students the opportunity to refine their assembly and soldering skills.

Custom Kits supplied upon request.
Workbooks, Handbooks and IPC Documents

**SWB-1 Soldering Workbook**

basic soldering theory • lead-free topics • wire preparation • crimping
soldering terminals • assembly & soldering of through-hole & SMT

This Soldering Workbook is the ideal tool for illustrating common assemblies and gives the student the opportunity to document notes. A perfect companion workbook for those classes that teach unique, company specific criterion. It is also excellent for classes that combine the requirements and acceptability of IPC-A-610, J-STD-001 and/or IPC/WHMA-A-620. Diagrams illustrate topics such as solder theory, solder compositions, flux, wire preparation, crimping, terminal soldering, through-hole assembly and surface mount criteria to name a few. Appropriately placed lines accommodate note taking for better student retention.

**HBS-4 Wiring & Soldering**

The Wiring and Soldering Handbook was designed to provide the electronics manufacturing industry with a comprehensive step-by-step instructions. The use of this handbook greatly simplifies training of assemblers. The easy to follow process instructions provides the operator with a continual reference tool.

**ESD-HB ESD Awareness Handbook**

This ESD Awareness Handbook is an ideal handout for use in class and as a quick reference after class. Content covers and discusses: What is ESD? How are static charges generated? Why is ESD a problem? How can ESD be controlled? *(also available in Spanish)*

**IPC Documents & Certificates**

Those who know Omni are aware that we offer training kits for training and certification courses. As an IPC Certification Center and Distributor we can also be your one-stop shopping for not only certification, but the documents and certificates that accompany CIS certification.
Workmanship Criteria Presentation (complete set)

001-INSP INSPECTION CRITERIA TEST ON CD-ROM

This CD contains photographed pictures in a PowerPoint™ Show format. Answer sheets and keys are provided in PDF format for printing. This allows for complete training records required in many certification programs, such as ISO requirements. Through-out the test, students are required to exercise discrimination skills and choose whether Acceptable, Defect, or Process Indicator according to the IPC-A-610, J-STD-001 and IPC/WHMA-A-620 documents. This product will be licensed to companies and not to be used for training outside of the licensed restrictions.

ESD DVD & VIDEO

This 22 minute video teaches the basics of ESD (Electrostatic Discharge) as well as its causes and effects. The target audience is anyone who handles, or in any way comes in contact with, ESDS (electrostatic discharge sensitive) components and/or assemblies. The video content discusses the complete ESD Control Program which consists of control methods, materials, and equipment such as grounding, protective materials, protective handling, humidity control, ionization and monitoring methods. Subjects also addressed include ESD prevention, identification and classification of ESDS devices. As you may be aware, this video is affordable priced and thus is not returnable or sent out for preview. There is nothing flashy about this video. However, if you are interested in a simple supplement to your in-house ESD training, this one is for you. IPC ESD Video also available.

IPC DVDS & VIDEOS

As an IPC distributor, in addition to IPC certification and documents, let us be your one-stop-shopping for IPC training videos including mechanical assembly, crimping, ESD awareness, and various manufacturing and hand soldering/rework/repair videos. Video and DVDs in various languages.

contact our office for list
WORKMANSHIP POSTERS

Posters

#P-Term A Turret & Bifurcated Terminals

#P-Term B Hook, Pierced & Cup Terminals

#P Term C Cup Terminals

#P-Thru Through-hole Solder Coverage

PART #   DESCRIPTION
P-Term A   Turret & Bifurcated Terminal
P-Term B   Hook, Pierced & Cup Terminal
P-Term C   Cup Terminal
P-Thru     Through-hole Technology
P-Comp ID  Component Identification
P-SMT A    SMT (non-leaded components)
P-SMT B    SMT (leaded components)
P-SMT C    Gull-wing

These posters are approximately 17” x 22”
Each are suitable for framing and perfect

#P-SMT A Castellated, Chip & Cylindrical

#P-SMT B Gull Wing & J-Lead

#P-SMT C Gull Wing Assembly & Solder

(909) 941-9495
9521 Business Center Drive, Suite 102, Rancho Cucamonga, CA 91730

OmniTraining.com
# Price List

## TRAINING & CERTIFICATION COURSES

<table>
<thead>
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<th>Course</th>
<th>Price</th>
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<td>IPC-A-610 CIT Recertification Course</td>
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## TRAINING AND CERTIFICATION KITS

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<td>TK-1R Through-hole Recertification Kit</td>
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<td>TK-2 Standard SMT Kit</td>
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<td>TK-2FP Standard and Fine Pitch SMT Kit</td>
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<td>TK-4 Through-hole Kit</td>
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<td>TK-15 Lead-Free J-STD-001E CIS-CIT Certification Lead-free Kit</td>
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<td>TK-16 J-STD-001 CIS-CIT Certification Mixed-Tech Kit</td>
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## TRAINING & CERTIFICATION PCBS

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<td>TB3 Through-hole Double Sided PCB with Ground Plane (Included in our TK-1, TK-1R and TK-4 Kits)</td>
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<td>TB4 Standard Pitch Double Sided Printed Circuit Board (Included in our TK-2 Kit)</td>
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<td>TB4FP Standard and Fine Pitch Double Sided PCB (Included in our TK-2FP Kit)</td>
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<td>TB-5F J-STD-001F Supplemental PCB (making TK-15 kits Rev G compliant)</td>
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<td>TB-LEAD FREE Mixed-technology Lead-free training PCB</td>
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## Price List

**WORKBOOKS, HANDBOOKS AND IPC DOCUMENTS**

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<td>Soldering Workbook</td>
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<td>IPC-13/14</td>
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**CD ROMS, DVD & VIDEO MEDIA**

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<td>Wire Prep &amp; Terminals Workmanship Criteria</td>
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<td>WC-2</td>
<td>Through-Hole Workmanship Criteria</td>
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<td>WC-3</td>
<td>SMT Workmanship Criteria</td>
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<td>WC-123</td>
<td>Workmanship Criteria Complete Set</td>
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<td>001-INSPI</td>
<td>Wires, Terminals, Through-hole &amp; SMT Workmanship Criteria Inspection Test</td>
<td>$99.00 ea</td>
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<tr>
<td>ESD-DVD</td>
<td>ESD Training Program (DVD) IPC Training Videos and DVDs</td>
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<td>IPC DVDS</td>
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**WALL POSTERS**

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<td>P-Term A</td>
<td>Turret &amp; Bifurcated Terminal Solder Coverage</td>
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<td>P-Term B</td>
<td>Hook, Pierced &amp; Cup Terminal Solder Coverage</td>
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<td>P-Term C</td>
<td>Cup Terminal Assembly &amp; Solder Coverage with Lead-Free</td>
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<td>P-Thru</td>
<td>Through-hole Technology Solder Coverage</td>
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<td>P-Comp ID</td>
<td>Component Identification of Terminals, Through-hole &amp; SMT</td>
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<td>SMT Solder Coverage (non-leaded components)</td>
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<td>P-SMT B</td>
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<td>P-SMT C</td>
<td>Gull-wing SMT Assembly and Solder Requirements with Lead-Free</td>
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<td>IPC Posters</td>
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<td>call for details</td>
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**PAYMENT TERMS:** C.O.D., VISA and Master Card is accepted. All payments in US dollars.

**RETURNS:**
Prior to returning any materials, please contact us. Returns may be subject to a 15% restocking charge.

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**EFFECTIVE DATE:** Prices effective: 1/19. Prices subject to change.

**QUANTITY PRICING AVAILABLE UPON REQUEST**

Contact information:
Omni Training
9521 Business Center Drive, Suite 102
Rancho Cucamonga, CA 91730
Ph. (909) 941-9495 • Fax (909) 941-9494

OmniTraining.com