

CONSULTANTS TO THE ELECTRONICS INDUSTRY

- MANUFACTURING START-UP
- PROCESS EVALUATION
- SUBCONTRACTOR QUALIFICATION
- EQUIPMENT EVALUATION
- LEAD-FREE, ESD, PROCESS AND QUALITY AUDITS

THE LEADER IN HI-TECH 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
- **REWORK & REPAIR**
IPC-7711 INSTRUCTOR & OPERATOR CERTIFICATION
IPC-7721 INSTRUCTOR & OPERATOR CERTIFICATION
- **HAND SOLDERING SKILLS**
SOLDERING BASICS, THROUGH-HOLE & SURFACE MOUNT TRAINING



CABLE & WIRE HARNESS TECHNOLOGY

- **QUALITY & INSPECTION**
IPC-A-620 INSTRUCTOR & OPERATOR CERTIFICATION
- **HANDS-ON LABS**
SOLDERING, CRIMPING & HARNESS ASSEMBLY TRAINING



FIBER OPTICS TECHNOLOGY

- **INSTALLER & TECHNICIAN CERTIFICATION**
- **FUNDAMENTALS**
- **TERMINATIONS & CLEANING**

IPC-A-620 CERTIFIED IPC TRAINER

IPC/WHMA-A-620 Registered Instructor Training & Certification Program

IPC/WHMA-A-620

COURSE DESCRIPTION

This lectured course* utilizes the images in the IPC/WHMA-A-620 document to provide visual accept/reject criteria examples for all three classes of cable and wire harness assembly production. The IPC/WHMA-A-620, "Requirements and Acceptance for Cable and Wire Harness Assemblies", is the most widely used inspection specification for the cable and wire harness assembly industry.

As part of the requirements for certification, students must score an 80% average on the final examination.

***Hands-on skills are NOT presented in this course.**

Students interested in developing hands-on skills should attend the 5-day enhanced course,

IPC-A-620 Certified IPC Trainer with Hands-on Labs.

WHO SHOULD BECOME CERTIFIED

This course is for anyone responsible for the quality and reliability of cable and wire harness assemblies—including trainers, engineers, quality supervisors, inspectors and manufacturing personnel responsible for quality assurance.

WHAT STUDENTS RECEIVE

Everyone who successfully completes the Certification examinations with an 80% average grade will receive:

- IPC/WHMA-A-620 Standard
- Instructor Student Handbook and Instructor Guide
- Operator course presentation on CD ROM
- Operator course exams
- IPC Certificate of Training

PREREQUISITES

An understanding of the Cable and Wire Harness Assembly Industry and an understanding of the English language, both oral and written are all that is required to benefit from EPTAC's IPC-A-620 Certified IPC Trainer Program.

CLASS SIZE

Maximum number of students is limited to ten (10) to provide greater instructor interaction. Call early to reserve your space.

MATERIALS For each class, all the necessary tools and materials will be supplied. Students are welcome to bring their own documents if they wish.

LOCATION Classes are held at EPTAC's Corporate Training Center located just 35 miles from Boston and at locations throughout the US and Canada.

ON-SITE TRAINING Please call a training consultant and ask about customized course content, on-site training and training around your production schedules.

REGISTRATION For up to date pricing and more information on any of the EPTAC programs, or to enroll, please call us toll free or visit eptac.com.

TOLL FREE: **1-800-64-EPTAC**
FAX: **603-296-2377**
E-MAIL: **REGISTER@EPTAC.COM**
WEB: **EPTAC.COM**

COURSE OUTLINE

DAY 1

- **Module 1:** Introduction/Policy and Procedures
- **Module 2:** Requirements and Acceptance for Cable and Wire Harness Assemblies and Applicable Documents
- **Module 3:** Wire Preparation
- **Module 4:** Soldered Terminations
- **Module 5:** Crimp Terminations

DAY 2

- Review and Review Exercise
- **Module 5 (cont.):** Crimp Terminations
- **Module 6:** Insulation Displacement (IDC)
- **Module 7:** Ultrasonic Welding
- **Module 8:** Splices
- **Module 9:** Connectorization

DAY 3

- Review and Review Exercise
- **Module 9 (cont.):** Connectorization
- **Module 10:** Molding / Potting
- **Module 11:** Cable Assemblies and Wires
- **Module 12:** Marking Labeling
- **Module 13:** Coaxial and Twinaxial Cable Assemblies
- **Module 14:** Wire Bundle Securing

DAY 4

- Review and Review Exercise
- **Module 14 (cont.):** Wire Bundle Securing
- **Module 15:** Shielding
- **Module 16:** Cable/Wire Harness Protective Coverings
- **Module 17:** Installation
- **Module 18:** Solderless Wrap
- **Module 19:** Testing/Review