

# IPC TRAINING

IPC WHMA - A - 610

## Acceptability of Electronic Assemblies

MESH  
GLOBAL

IPC training programmes are intensive courses concluding in examination. Students should have the necessary standard of knowledge and experience to support their attendance on a course and to undertake the examination. If students have any concerns about qualification to attend any course they should contact Abersea training staff in advance for advice

This course is therefore aimed at anyone in your team who needs to understand soldering standards. Those who pass the course will be able to discriminate between good, bad and acceptable solder joints for components soldered to PCBs.

The goal of IPC A-610 training is to improve an individual's skills and ability to discriminate between acceptable and unacceptable electronic assemblies. Candidates don't just learn *when* a particular assembly should be accepted or rejected, they learn the reasons *why*.

To complement the IPC A-610 soldering quality assurance course we offer practical skills soldering courses which include an IPC qualification.

IPC A-610 covers three classes of quality assurance

CLASS 1	General electronic products - such as cameras, audio/video and domestic appliances. The lifetime of these products is limited, and a failure is not critical.
CLASS 2	Dedicated service electronic products - such as printers, copiers, computers and general production equipment. The lifetime of the products is longer than class 1, the amount of usage is higher, and an uninterrupted service is desirable.
CLASS 3	High reliability/critical products - such as military, aerospace and medical. Not only is the product lifetime extended but the products must function without interruption and downtime is not an acceptable option.

### Pass rates and notes:

Application Specialist	Certified Trainer
A minimum of 70% is required on each closed and open-book written test to achieve a pass	An average of 80% is required across all the closed and open-book written tests to achieve a pass
On completion of the course, the Application Specialist will receive a copy of the IPC 610 Standard	receive all IPC materials to carry out the Application Specialist training. These include: <ul style="list-style-type: none"><li>• CD-ROM with teaching visuals</li><li>• Instructor Guide</li><li>• IPC-A610E Written Examination</li></ul>
For modules 5, 6 or 7; modules 4 and 8 must be taken beforehand	Application Specialist training materials, manuals and course certificates can only be purchased by Certified IPC-A-610 Trainers

Each course provides a global IPC certification valid for two years. For students who have previously achieved either Application Specialist or Certified Trainer IPC-A-610 Certification within the last two years a relevant Recertification course is available.

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IPC A-610 is a modular programme. Apart from mandatory modules your staff may only need the elements relevant to your company; however both IPC and Abersea strongly recommend that all modules are taken. For Certified Trainers all modules are mandatory;

	Application	Certified Trainer
Module 1 – Introduction/IPC Professional Policies and Procedures	Mandatory	Mandatory
Module 2 – Foreword, Applicable Documents & Handling	Mandatory	Mandatory
Module 3 – Hardware Installation	Optional	Mandatory
Module 4 – Soldering (Including High Voltage)	Optional	Mandatory
Module 5 – Terminal Connections	Optional	Mandatory
Module 6 – Through Hole Technology (Including TH Jumper Wires)	Optional	Mandatory
Module 7 – Surface Mount Assemblies (Including SMT Jumper Wires)	Optional	Mandatory
Module 8 – Component Damage and Printed Circuit Boards and Assemblies	Optional	Mandatory
Module 9 – Solderless Wire Wrap	Optional	Mandatory

#### Training courses at our training centre:

Certified Trainer	Application Specialist
<p>Certified IPC Trainer (CIT) course is 5 days</p> <p><i>All modules are mandatory.</i></p> <p>A copy of the IPC Standard and IPC's training materials are included for each student</p>	<p>Certified IPC application Specialist (CIS) course is 4 days</p> <p><i>Module 1 is mandatory and takes one full day. All modules are covered within four days; omitting modules is unlikely to reduce overall attendance time.</i></p> <p>A copy of the IPC Standard is included for each student.</p>
CIT Recertification is available - ask for details	CIT Recertification is available - ask for details

If, within seven days of the course commencement date, there are insufficient students booked onto this course, Abersea maintains the right to cancel and offer alternative dates.

#### On site training at customer's location:

Certified Trainer	Application Specialist
<p>Certified IPC Trainer (CIT) is a 5-day course</p> <p><i>All modules are mandatory.</i></p> <p>Course materials are provided during the training; one copy of IPC's training materials is included and more can be purchased separately from Abersea</p>	<p>Certified IPC application Specialist (CIS) is a 4-day course</p> <p><i>Module 1 is mandatory and takes one full day. Each individual module requires a different amount of classroom time. All modules are covered in <b>four</b> days.</i></p> <p>Course materials are provided during the training; one copy of</p>
CIT Recertification is available - ask for details	CIT Recertification is available - ask for details

IPC J-STD-001 'challenge tests' for CIS and CIT can also be booked, please contact us to discuss the options involved.