

IPC TRAINING

WHMA - A - 610

Acceptability of Electronic Assemblies

MESH

G L O B A L

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. This course is aimed at anyone that is required to understand soldering standards and principles. Those who pass the course will be able to determine between what is considered a good, bad and acceptable solder joint 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 do not just learn *when* a particular assembly should be accepted or rejected, they learn the reasons *why*.

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
A minimum of 70% is required on each closed and open-book written test to achieve a pass
On completion of the course, the Application Specialist will receive a copy of the IPC 610 Standard
For modules 5, 6 or 7; modules 4 and 8 must be taken beforehand

Each course provides a global IPC certification valid for two years. For students who have previously achieved either Application

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 Mesh Global

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

strongly recommend that all modules are taken. For Certified Trainers all modules are mandatory;

Training courses at our training centre:

Application Specialist
Certified IPC application Specialist (CIS) course is 4 days
<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>
A copy of the IPC Standard is included for each student.

On site training at customer's location:

Application Specialist
Certified IPC application Specialist (CIS) is a 4-day course
<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 four days.</i>
Course materials are provided during the training; one copy of the standard is included and more can be purchased separately

Montrose
Scotland
DD10 9PB

+44(0) 1224 877113



www.mesh-global.com

Weston Super Mare
England
BS24 9AX

+44(0) 1934 623235