

IPC TRAINING

IPC J-STD-001

Requirements for Soldered Electrical and 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.

The IPC J-STD-001 describes the materials, methods and verification criteria for producing high-quality, soldered, leaded and lead-free interconnections, and emphasises the process control needed to achieve these.

The course describes the materials, methods and verification criteria for producing high quality soldered joints; it emphasises the importance of process control.

The basic techniques of soldering are explained along with details on relevant factors such as flux, solder composition, soldering to terminals, through-hole, surface-mount devices and relevant inspection. Acceptance criteria are also fully covered.

Importantly, this is not a beginner's soldering course and candidates must have hand soldering experience. The course includes practical elements including work on plated through hole components and surface mount devices to validate inspection to the IPC J-STD-001.

J-STD-001 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 online test and practical exams on Modules 2, 3 and 4 to achieve a pass
On completion of the course, the Application Specialist will receive a copy of the IPC J-Std-001 Standard
Students opting for just Module 5 will also get questioned on Modules 2-4

Each course provides a global IPC certification valid for two years. For students who have previously achieved either Application Specialist or Certified Trainer J-STD-001 Certification within the last two years a relevant Recertification course is available.

J-STD-001 is a modular programme. Apart from mandatory modules your staff may only need the elements relevant to your company; however IPC strongly recommend that all modules are taken.

	Application Specialist
Module 1 – Overview of J-Std-001 requirements and general requirements	Mandatory
Module 2 – Assembly and soldering of wires and terminals	Optional
Module 3 – Assembly and soldering of through-hole connections	Optional
Module 4 – Assembly and soldering of surface mount components	Optional
Module 5 – Theory and application of inspection techniques including a practical exercise	Optional

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

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