

IPC-A-610 (revision c)
**Acceptability of
Electronic Assemblies**
*"It's the industry's most widely
used acceptability document."*

**Do you
have it?**

Conquering chaos with standards

COMPANIES HAVE A LONG LIST OF CONCERNS, FROM MATERIALS TO FABRICATION TO ASSEMBLY TO CLEANING, TEST AND BEYOND. The need for technical standards is obvious. They promote lower costs, build customer confidence in the electronics industry, and draw a roadmap for continued growth.

IPC's global standards provide a unique and priceless tool, recognised widely here in Europe as **THE STANDARD**.

As great as the motivation to build industry standards is the desire to protect the environment and the public health from any hazards that are part of electronics manufacturing. To this end, IPC enables companies to speak with one voice and provide accurate scientific and commercial background to the debate over protective legislation. Out of the array of concerns that reflect the broad scope of IPC, however, a few items show up on nearly everyone's list:

- Optoelectronics is a technology that has grasped the attention of many in the past two to three years
- Lead-free soldering continues to spawn a lot of attention from industry
- Design standards are more important than ever

NEW **IPC-A-620** **NEW**
The **FIRST** industry-consensus
standard for 'Requirements
and Acceptance of
Cable and Wire
Harness
Assemblies'
NEW

USER COMMENTS

As the site at Leicester was primarily for building Printed Wiring Assemblies it was decided that the IPC standards would be our acceptable guidelines, as all our PCB suppliers were using IPC standards for the building and acceptability of their products.

In March 2000, we were honoured with an award presented to myself for the assistance given in the production and release of the IPC-A-610 Revision C and the J-STD-001C. This was presented at the IPC APEX Conference at Long Beach Convention Center, Long Beach, California. IPC-A-610 Rev C has been issued by ACT Manufacturing (formerly Fisher Rosemount) and is now our current accepted standard, for all our customer's PWA's, be they Class 1, 2 or 3.

Trevor A. Hughes (Retired)
Senior Quality Engineer
ACT Manufacturing UK Ltd. Leicester

I first became aware of IPC standards during the 70's while working in the semiconductor industry, and later while employed by IBM in Greenock. IPC standards and seminars gained importance to me during the 80's and 90's as IBM adopted surface-mount assembly and built up its flexible circuits capability at the Havant plant.

The great thing about IPC standards is that they get better and better; there is a very good feedback mechanism for their continuous improvement. I was recently involved as a reviewer and commentator in the development of the new Cable and Wire Harness Standard (IPC-A-620) and was amazed at the work that goes into these standards. Reviewers from all over the world contribute, and their comments are thoroughly considered by technical committees using meetings, teleconferences and of course, email. Reviewers and commentators can monitor the progress of the document's development by accessing IPC's FTP site where the committee's response to all comments can also be observed.

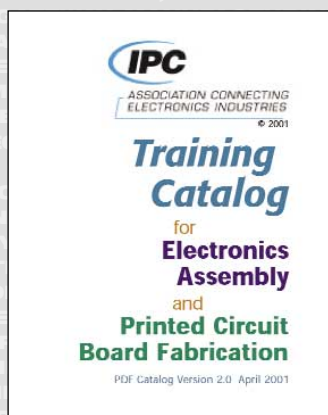
Bill Strachan
Highbury College & AsTA Consultancy, Portsmouth

IPC can help you conquer any chaos your company has by providing technical standards and training. Keep up to date by joining our mailing list.

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Standards, guidelines, artwork, and visual tools supporting printed circuit boards, design and electronics assembly.



IPC TRAINING CATALOG
For electronics assembly and printed circuit board fabrication.

EXAMPLES OF THE PRODUCTS AVAILABLE

PUBLICATIONS

IPC-DRM-SMT	SURFACE MOUNT SOLDER JOINT EVALUATION MANUAL	£38.20
J-STD-001C	REQUIREMENTS FOR SOLDERED ASSEMBLIES	£53.50
IPC-HDBK-001	J-STD-001 HANDBOOK	£53.50
J-STD-013	IMPLEMENTATION OF BGA & OTHER HIGH DENSITY TECHNOLOGY	£53.50
J-STD-033	HANDLING, PACKING, SHIPPING & USE OF MOISTURE/REFLOW SENSITIVE SMDS	£30.60
IPC-DRM-40	THRU-HOLE SOLDER JOINT EVALUATION MANUAL	£30.60
IPC-A-600F	ACCEPTABILITY OF PRINTED BOARDS	£61.10
IPC-A-610C	ACCEPTABILITY OF PRINTED BOARD ASSEMBLIES	£68.80
IPC-A-620	REQUIREMENTS AND ACCEPTANCE OF CABLE AND WIRE HARNESS ASSEMBLIES	£68.80
IPC-SM-782A	SURFACE MOUNT LAND PATTERNS (INC AMENDMENTS 1 & 2)	£68.80
IPC-2221	GENERIC STANDARD ON BOARD DESIGN (INC AMENDMENT 1)	£38.20
IPC-6011	GENERIC PERFORMANCE SPEC FOR PRINTED BOARDS	£15.30
IPC-7525	STENCIL DESIGN GUIDELINES	£23.00
IPC-7711	REWORK OF ELECTRONIC ASSEMBLIES	£114.60
IPC-7721	REPAIR AND MODIFICATION OF PRINTED BOARDS	£114.60

CHARTS AND POSTERS

IPC-P-SMTS-2	SMT INSPECTION SHEETS (CLASS 2)	£38.20
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IPC-PTHS-3	PTH INSPECTION SHEET (CLASS 3)	£7.70

VIDEOS

IPC-VT-42/43 PAL	HAND SOLDERING FOR THROUGH-HOLE COMPONENTS	£546.00
IPC-VT-49 PAL	SEVEN SINS – HAND SOLDERING VIDEO TRAINING	£415.80
IPC-VT-91 PAL	INTRODUCTION TO SURFACE MOUNT REWORK	£294.00
IPC-VT-92 PAL	REWORK OF SURFACE MOUNT CHIP COMPONENTS	£399.00
IPC-VT-93 PAL	REWORK OF GULL WING COMPONENTS	£399.00
IPC-VT-94 PAL	REWORK OF J-LEAD COMPONENTS	£294.00
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