

STANDARDS NEWSLETTER

(INDIA REGION)

Volume 6

Sep'24-Jan'25



Deliver on Consistency, Reliability and Quality

MESSAGE - HOD STANDARDS, IPC INDIA & SEA

Standards Development activities @ India region is now coming up in BIG way. We are not only having an involvement of 100+ members from Indian EMS, Wire Harness, Defence, PCB Design, EV companies in Standard Development activities but now reaching to the industries to understand their specific challenges to come up with solutions. Recently, we have done survey in Mobile, Telecom and Consumer Electronic sector organisations for their challenges in manufacturing. Subsequently, a team of expert of same industries being constituted and come up with a guidelines document focusing on those challenges surfaced from the survey. Now, there are plans to widen the survey via professional survey agencies and joining hands with Electronic, Telecom association to work jointly.



Saurabh K Saxena

IPC India is also now taking care of Southeast Asian (SEA) countries (Malaysia, Thailand, Vietnam, Singapore, Philippines etc.) and next action is to expend the Standard Development activities in these countries as well. With this initiative, I'm sure of having a great amount of contribution from India and SEA countries towards Standard Development activities.

IPC invites the industry to come forward and join the Standard Development activities to help 'Build Electronics Better'.

EVENTS @ STANDARDS DEVELOPMENT

Forthcoming Standards Development committee meeting/ event:

February 13-15, 2024
Myrtle Beach, South Carolina

WHMA's ANNUAL
Global Leadership Summit

Produced by: WHMA, IPC, DAIRD CENTER

APEX EXPO
IPC 2025
25TH ANNIVERSARY

MARCH 15-20
MEETINGS + COURSES
MARCH 18-20
CONFERENCE + EXHIBITION
ANAHEIM CONVENTION CENTER CA

**REIMAGINE
POSSIBILITIES**

IPCAPEXPO.ORG #IPCAPEXPO

ELECTRICAL WIRE PROCESSING TECHNOLOGY EXPO 2025

CONFERENCE: MAY 6-8
EXHIBITION: MAY 7-8
BAIRD CENTER MILWAUKEE, WI

HARNESSES CONNECTIONS

Produced by: WHMA, IPC, DAIRD CENTER

LEAD EDUCATE CONNECT

29-30
January 2025
Vienna - Austria

**Pan-European
Electronics Design
Conference**



STANDARD DEVELOPMENT INDIA PROJECTS

We welcome any interested expert to join the task group to work voluntary for the industry.

Domain	Standard No. (Team Code)	Chairman	Description	Status
Automotive	IPC 1771 (7-36A)	Mr. V.R. Chakravarthy Ex. Continental, Bangalore	Automotive Supplier Checklist	Check sheet released - November 2023 (https://go.ipc.org/1771checklist)
EV	IPC 9911 (6-10K)	Mr. Anand Kumar S N Polisetty Simple energy Pvt Ltd., Bangalore	Automotive Supplier Checklist	Weekly Meeting, Completion outlook - Dec.' 27
PCB Design	IPC 2232 (6-10J)	Ms. Savita.R.Ganjigatti SIENNA ECAD Technologies Pvt. Ltd., Bangalore	Guideline for Printed Board Design and Manufacturing of IOT Products	Weekly Meeting, Completion outlook - Jan.'26
EMS	IPC-A-610 (7-31B-IND)	Mr. PBV Rama Murthy RCMA, Hyderabad	India Regional Task Team	Ongoing task team meetings
	J-STD-001 (5-22A-IND)	Mr. PBV Rama Murthy RCMA, Hyderabad	India Regional Task Team	Ongoing task team meetings
Wire Harness	IPC/WHMA-A-620 (7-31F-IND)	Mr. Sudarshan Jagirdar Rossell Techsys, Bangalore	India Regional Task Team	Ongoing task team meetings
Box Build	IPC - A- 630 (7-31G-IND)	Mr. Sudarshan Jagirdar Rossell Techsys, Bangalore	India Regional Task Team	Ongoing task team meetings

Other Initiatives

Domain	Chairman	Description	Status
Consumer Electronics	Mr. Ashish J Micheal Jio Platform Ltd., Noida	India Manufacturing Process Guidelines for Consumer Electronics	Under Progress, Completion Outlook - Sep. 2024
PCB	Col. Shekhar Mishra DGQA, Bangalore	PCB Test lab at India in accordance with MIL standard	IPC is review team member of JSS

STANDARDS DEVELOPMENT MEETINGS @ INDIA

November 30, 2024, Project Review Meetings conducted for IPC 2232 and IPC 9911 in presence of Mr. David Bergman and Mr. Gaurab Majumdar (ED-IPC India and South East Asia).

During the session, project teams presented the project progress and plans for coming months. These projects are the first ever projects led by India experts and also supported by other members from around the globe.



CONSUMER ELECTRONICS MANUFACTURING GUIDELINES

- Consumer electronics & Mobile manufacturing contribution is aprox. 60% of entire electronics manufacturing.
- Govt & industry have ambitious target to double the manufacturing in next 3-4 years
- Special emphasize by Govt. on exports focusing on Europe & UK market.

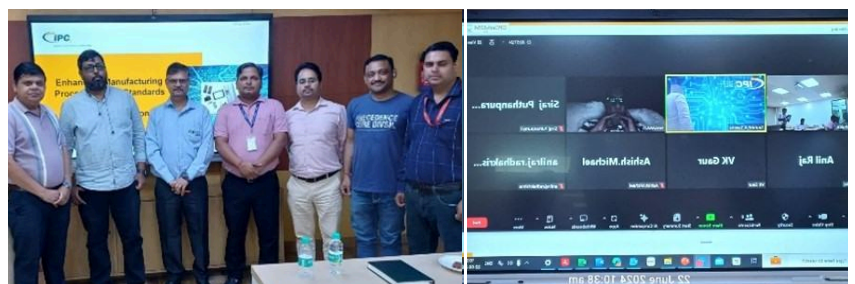
In view of above, IPC has initiated one of the project (Electronics Product Manufacturing Process Guidelines) with the help of experts from OEM, Suppliers, Manufacturers of Mobile and Consumer electronic organisations.

This process was triggered after a survey done with Mobile and Consumer electronics organisations on their challenges with manufacturing processes.

- With support from professional market research agency, IPC intend to reach 200+ electronics companies (OEM & EMS) targeting consumer electronics, mobile manufacturing, telecom equipment manufacturing, LED lights.
- IPC will develop report that will help Govt & industry to understand "Manufacturing Process Gaps" and "Standards Best Practices " to be adopted for enhancing the quality of finished goods that will be relevant for growth of exports.
- Prepare Skill Development courses for the consumer electronics industry based on the final "technical" document

Processes for Consumer Electronics devices

IPC has teamed up with ICEA (India Cellular and Electronics Association) to study, find & improvise "Standards" applicable for design & manufacturing process in the assembly of printed circuit boards used in building consumer electronics devices, gadgets & appliances.

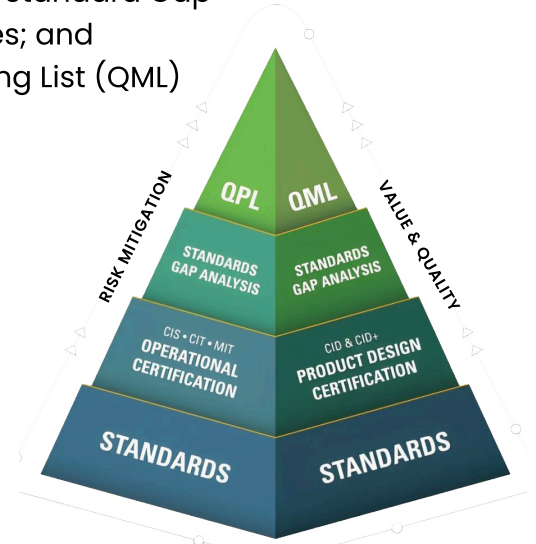


IPC VALIDATION SERVICES

It's a pyramid to an organisation's success in the electronics manufacturing industry. By using IPC Validation Services programs, organisations may help in Build Electronics Better: Technology Solutions for solving specific manufacturing process challenges; Standard Gap Analysis (SGA) to uncover manufacturing process inconsistencies; and reaching the pinnacle of the pyramid with Qualified Manufacturing List (QML) or Qualified Product List (QPL).

With IPC Validation Services, EMS companies and Suppliers:

- Reduce costs and labor for quality assurance audits and minimize material qualification cycle time
- Become part of the global network of trusted sources via the IPC Qualified Manufacturers List (QML)
- Differentiate your company from the competition
- Reduce client turnover
- Increase product quality throughout your supply chain
- Have access to industry product test reports via IPC's Validation Services Qualified Products List (QPL).



Validation Services in India also been started two years back and many organisations are approaching towards getting them certified as Qualified Manufacturers.

QML Certified Companies (India) as of now:

IPC J-STD-001/610

SFO Technologies Private Limited, Cochin
SGS Teknics Manufacturing Pvt. Ltd., Gurgaon
Siemens Limited – SI EA O PA IN, Goa

IPC/WHMA-A-620

Amphenol FCI OEM, Bangalore
Amphenol Socapex – AIMS, Pune

INDIA PARTICIPATION IN PEDC CONFERENCE @ VIENNA, AUSTRIA

Ms. Savita.G (VP Engineering) from SIENNA ECAD Technologies, Avalon group, Bengaluru, India participating in PEDC (Pan-European Electronics Design Conference).

In this conference, she will be presenting paper on the subject 'AI Driven Automation of ECAD Library', Panel discussion on 'AI in electronics' & 'Overcoming Design/Simulation challenges while using Very Highspeed Ethernet Switch chipsets'





LINK FOR IPC STANDARD RELATED RESOURCES

IPC - Propose a Standard Development Activity
[Propose Development Activity |
IPC Standards](#)

[IPC Simplified Standards Specification Tree](#)
Provides all of the standards and IPC technical staff liaison responsibility

Stay Connected with IPC Document Revision Table
[Document Revision Table | IPC Resources](#)

[IPC Checklist](#)
A simple guide from start to finish of standards for producing rigid printed board assemblies

STANDARDS: CURRENT STATUS


Project Approved

IPC-2201	Requirements for Physics of Failure Analysis for Components and Assemblies
IPC-2611A	Generic Requirements for Electronic Product Documentation
IPC-2612-1A	Sectional Requirements for Electronic Diagramming Symbol Generation Methodology
IPC-2612A	Sectional Requirements for Electronic Diagramming Documentation (Schematic and Logic Descriptions)
IPC-4557	Specification for Electrolytically Deposited Nickel/Gold Surface Finish for Printed Board Applications
IPC-6911	Acceptability of Additively Manufactured Electronics (AME)
IPC-7070	Guidelines for Printed Board Component Mounting
IPC-7077	Requirements and Acceptance of Wire Bonding in the Microelectronic Assembly
IPC-9205	Evaluating Electrochemical Performance of Electronics Manufacturing Materials and Processes
IPC-HDBK-001A	Handbook and Guide to Supplement J-STD-001G and J-STD-001G - Revision A
IPC/JEDEC J-STD-033E	Handling, Packing, Shipping and Use of Moisture, Reflow, and Process Sensitive Devices
IPC/JEDEC J-STD-609C	Marking, Symbols, and Labels of Leaded and Lead-Free Terminal Finished Materials Used in Electronic Assembly

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for any clarifications on India Standard Development activities.

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