BUILDING BLOCKS FOR YOUR SUCCESS IN THE ELECTRONICS INDUSTRY
IPC: WE FOCUS ON YOUR SUCCESS

As a global industry-driven organization, IPC exists to help its member-companies innovate, compete and succeed. By being the hub of knowledge in the electronics industry, IPC provides standards, training and certification, market research, education and public policy advocacy to help member-companies achieve their goals. We are here to help our members create better-quality products, enhance the skills and knowledge of their employees, reduce costs and waste, comply with regulations and be ready to capitalize on what is next.
IPC: THE VOICE OF WHAT IS NEXT

Born out of the desire to transform the electronics industry more than 60 years ago, IPC became the voice of what was next — the breakthrough technology of printed boards. Today, IPC remains that voice as it continues to guide the electronics industry through dramatic changes.

With more than 5,000 member-company sites, IPC represents all facets of the industry including design, printed board manufacturing, electronics assembly and test. Our goal is to help our members achieve success.
Accepted worldwide as the key manufacturing standards for the printed board and electronics manufacturing industries, IPC standards are associated with nearly every stage of the electronic product development cycle. From design and purchasing to assembly and packaging, IPC standards help ensure superior quality, reliability and consistency in the electronics assemblies that go into an electronic product.

Annually, IPC publishes dozens of new and updated standards in areas from printed board design and intellectual property protection through box build. Today, IPC’s collection of industry standards and guidelines exceed 300 “active” standards and its resource library contains more than 1,000 standards.
OUR STANDARDS, AVAILABLE IN MULTIPLE LANGUAGES AND FORMATS, HELP COMPANIES:

Increase End-Product Quality and Reliability
Quality and reliability are essential to compete in the marketplace and critical to a company’s reputation and profitability. When IPC standards are implemented throughout the manufacturing process, companies help ensure better performance and longer life of their products as well as compliance with industry best practices and requirements.

Improve Communication Externally and Internally
When companies work from established IPC standards, they speak the same language with customers and suppliers — the language of the global electronics industry. These same companies benefit internally from employees who work together to meet the performance requirements and speak the same language needed to improve communications internally.

Manage and Reduce Costs
Companies that insist on adhering to IPC standards throughout product development help enable the production of electronics assemblies that can meet stringent quality and reliability requirements — minimizing costly delays, rework and scrap.

VALIDATION SERVICES — TECHNOLOGY SOLUTIONS, SGA, IPC QUALIFIED MANUFACTURERS LIST (QML), IPC QUALIFIED PRODUCTS LIST (QPL)
Helping establish a network of trusted suppliers around the world, IPC Validation Services programs include technology solutions and standards gap analysis (SGA) to help solve manufacturing issues. QPL and QML provide program audits to verify that products are built and manufactured in accordance with IPC standards.
AROUND THE WORLD, IPC STANDARDS ARE ASSOCIATED WITH NEARLY EVERY STAGE OF THE ELECTRONIC PRODUCT DEVELOPMENT CYCLE

IPC STANDARDS — EVERYTHING YOU NEED FROM START TO FINISH

End-Product

Acceptability Standard for Manufacture, Inspection, & Testing of Electronic Enclosures
IPC-A-630, IPC-HDBK-630

Requirements and Acceptance for Cable and Wire Harness Assemblies

Acceptability of Electronic Assemblies
IPC-A-610

Requirements for Soldered Electronic Assemblies
IPC-J-STD-001, IPC-HDBK-001, IPC-AJ-820

Acceptability of Printed Boards
IPC-A-600

Qualifications for Printed Boards
IPC-6011, 6012, 6013, 6017, 6018

Base Materials for Printed Boards
IPC-4101, 4103, 4104, 4202, 4203, & 4204

Design & Land Patterns
IPC-2221, 2222, 2223 & 2226 + 7351

Data Transfer and Electronic Product Documentation
IPC-2581 Series, IPC-2610 Series

IPC Terms and Definitions
IPC-T-50

Advanced Packaging
IPC-J-STD-030
IPC-7091
IPC-7092
IPC-7093
IPC-7094
IPC-7095

Storage & Handling
IPC-J-STD-020
IPC-J-STD-033
IPC-J-STD-075
IPC-1601

Test Methods
IPC-TM-650
IPC-9241
IPC-9631
IPC-9631

Electrical Test
IPC-9252

Surface Finishes
IPC-4552
IPC-4553
IPC-4554
IPC-4556

High Speed/Frequency
IPC-2141
IPC-2251

Materials Declaration
IPC-1751
IPC-1752
IPC-1755

Learn about IPC standards at www.ipc.org/standards

April 2019
IPC standards and guidelines are developed with the active participation of more than 3,000 electronics industry professionals worldwide. These volunteers draft, edit and vote on the standards that best meet today’s technical, business and regulatory challenges.

**Next Generation Standards**

- Design for high-speed, high-power and high-density interconnections
- Material declaration and environmental compliance
- Printed electronics materials and assembly
- Fabrication of advanced, highly integrated interconnect structures
- Data Connect facilitating the IoT, supply chain connectivity

**How IPC Standards Are Set**

 IPC standards and guidelines are developed with the active participation of more than 3,000 electronics industry professionals worldwide. These volunteers draft, edit and vote on the standards that best meet today’s technical, business and regulatory challenges.
EDUCATION AND TRAINING

With leading electronics industry resources, IPC provides training programs, educational events, technical conferences, online learning and networking opportunities to help companies enhance employees’ knowledge and build valuable relationships in the process.
IPC TRAINING AND CERTIFICATION PROGRAMS

Through an international network of more than 110 IPC licensed training centers, globally recognized, industry-traceable training and certification programs on key industry standards are offered. Employee training and certification allows companies to:

• Demonstrate commitment to rigorous performance requirements
• Meet the requirements of OEMs and electronics manufacturing companies that expect suppliers to have these important credentials
• Gain valuable industry recognition within the electronics supply chain
• Facilitate quality assurance initiatives that have become important in international training

SUBSCRIPTION VIDEO TRAINING RESOURCES

IPC provides industry-developed video training for the electronics assembly manufacturing industry through a new subscription service. We offer a complete library of operator-level training videos or mini-libraries that provides the foundation knowledge required for ESD Control, Hand Soldering, IPC-A-610 Acceptance Criteria, Rework & Repair, Components, Wire Assembly and more.

IPC instructional videos are useful for new employee orientation, basic training, cross-training and continuing education – for companies, schools and career development centers. They can be streamed into your classroom or viewed online by individual students.

CONFERENCES AND TRADE SHOWS

IPC provides timely educational events to enhance the knowledge and expertise of professionals in all areas of the electronics industry. IPC hosts technical and management conferences around the world as well as signature events like IPC APEX EXPO® — the industry’s premier technical conference and the largest exhibition for the electronics manufacturing industry in North America.
The industry’s trusted source of market research for more than 60 years, IPC provides market and business data to help companies make informed business decisions. With unique data sources that represent leading companies from around the world and throughout the electronics supply chain, IPC’s research reports and studies provide insights that cannot be obtained anywhere else.

Leadership in public policy advocacy is also a hallmark of IPC that provides a strong and unified voice to the global electronics industry. Dedicated government relations staff continually monitor proposed legislation, regulations and rules by governments and agencies around the world. IPC actively engages with regulatory agencies to protect the interests of its members and advocate for science-based regulations.
MARKET RESEARCH

As the electronics industry’s trusted source of industry data, IPC offers studies and statistical programs covering market, technology and business trends worldwide. These services help companies in business decision-making, benchmarking, planning and forecasting.

IPC’s market research studies and reports provide unique data and insights that give industry executives competitive advantages:

- See market trends as they develop
- Identify growing and declining markets
- Compare your company’s performance to industry averages and world-class benchmarks
- Use reliable data to make informed business decisions

GOVERNMENT RELATIONS AND ENVIRONMENTAL POLICY

IPC is the leading global advocate for the electronics industry. Together with its members, IPC actively engages in global government relations and environmental policy advocacy that are in line with IPC’s mission to further the competitive excellence and financial success of its members and to protect the environment. Whether it’s engaging with policy makers in Washington D.C., in the European Union or on regulatory commissions in China, IPC and its members proactively seek opportunities to educate, inform and influence policymakers on policies that spur innovation, growth and competition, and in the environmental arena, policies that are scientifically based and provide important protection.

ADVOCACY GETS RESULTS

2017 CONFLICT MINERALS

U.S. Securities and Exchange Commission (SEC) suspends enforcement of the costliest requirements of its conflict minerals rule. The acting chairman’s statement refers specifically to IPC’s advocacy on this issue.

2016 TOXIC SUBSTANCES REFORM

TSCA Reform bill includes language sought by IPC, calling for a negotiated rulemaking to reduce TSCA burdens on manufacturing byproducts sent for recycling. IPC prevails by persistently educating members of Congress and staff about our concerns, advancing sound policy, and cultivating Congressional champions along the way.

2018 SUPPLY CHAIN RESILIENCY

Worked with key policymakers to win an IPC-backed provision in the FY19 National Defense Authorization Act (NDAA) that required DoD to report to Congress in January 2019 on the defense electronics supply chain and long-term resourcing for the Executive Agent.

2015 RESPONSIBLE MINERAL SUPPLY CHAINS IN CHINA

On behalf of its members, IPC filed comments urging the China Chamber of Commerce of Metals, Minerals and Chemicals Importers & Exporters to carefully review the intended scope of its due diligence guidelines, given the difficulties companies are having with the more limited conflict minerals provision in the U.S. Dodd-Frank law. IPC urged the CCCMC to focus its initial actions on tin, tantalum, tungsten and gold, for which many companies are already developing mechanisms for responsible supply chains. IPC also suggests that the guidelines be more closely aligned with the OECD guidelines and remain voluntary.
IPC MISSION AND GOALS

MISSION STATEMENT
IPC is a global industry association dedicated to furthering the competitive excellence and financial success of its members, who are participants in the electronics industry. In pursuit of these objectives, IPC will devote resources to management improvement and technology enhancement programs, the creation of relevant standards, protection of the environment, and pertinent government relations. IPC encourages the active participation of all its members in these activities and commits to full cooperation with all related organizations.

ASPIRATIONAL GOALS

STANDARDS: IPC will be the most respected organization known for its leadership and global footprint in providing standards and quality programs supporting the electronics industry.

EDUCATION: IPC will become the world’s leading electronics education and knowledge provider to the electronics industry.

ADVOCACY: IPC will be known as the industry’s most influential advocate for a regulatory and legislative business environment that enables our members to improve their global competitiveness.

SOLUTIONS: IPC will work with the electronics industry to identify and collaborate on finding solutions to industry challenges.