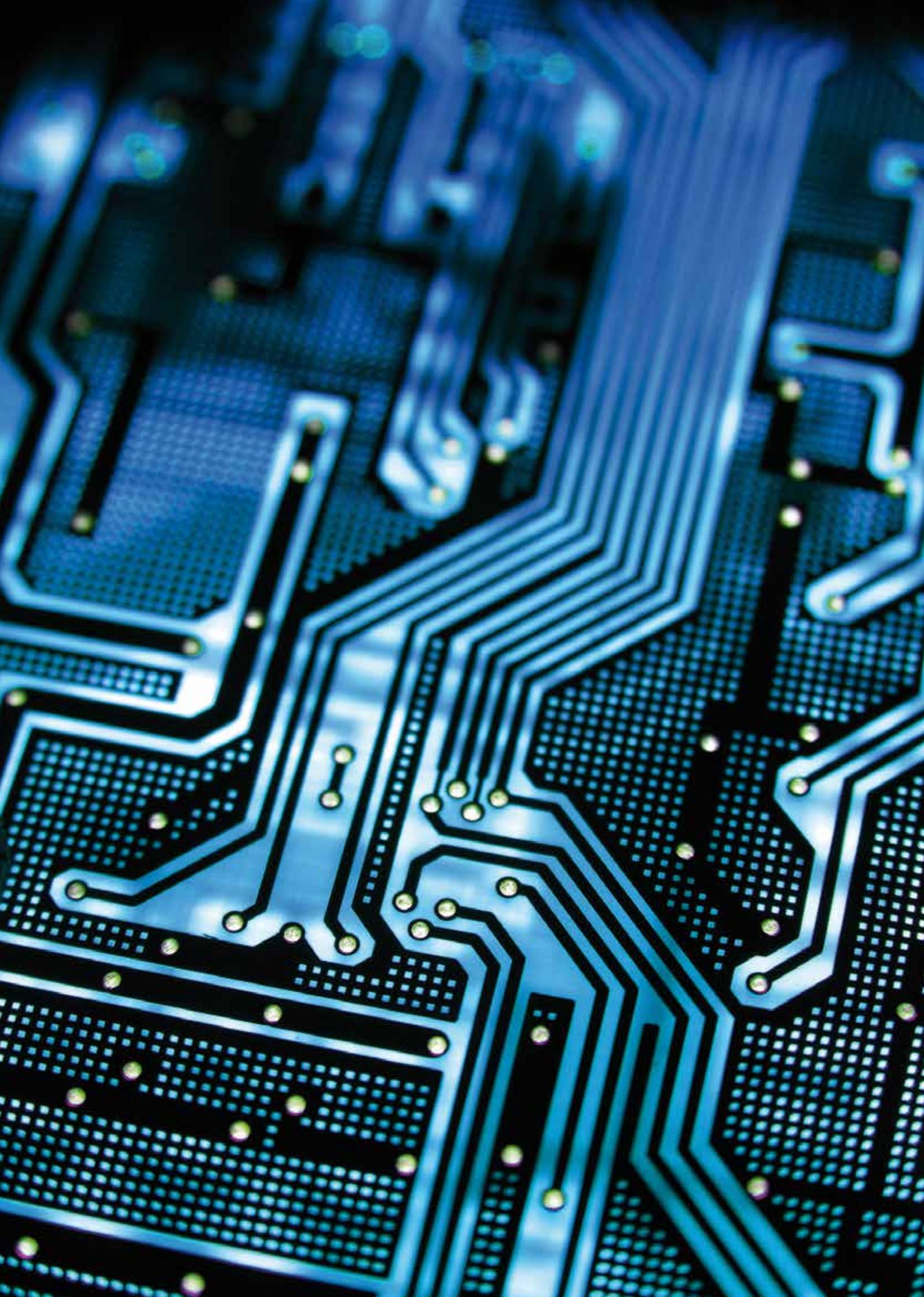




IECQ HSPM

Demonstrate compliance with global increasing hazardous substances legislation



Demonstrate compliance with global increasing hazardous substances legislation

Save time
Reduce cost
Eliminate duplication

With IECQ HSPM

As an electronic component manufacturer or supplier, you need to prove compliance with an increasing number of ever stricter regulations. You need to ensure that your products respect national and/or regional regulations to avoid potential recalls or liability suits.

By largely eliminating multiple testing and audits, the IECQ Hazardous Substance Process Management (HSPM) Scheme can help you reduce cost and save time, while providing you with the tools to fulfil regulatory requirements across multiple markets.

What is IECQ HSPM?

The IECQ HSPM Scheme is a technically based management systems approach to implementing and maintaining hazardous substance-free products and production processes.

Hazardous substance management needs to go much further than the strict control of the component itself. It involves the complete production process, from product design, purchasing, to production lines, warehouses and dispatch. The presence of hazardous substances at one stage of the process can contaminate the final product.

IECQ HSPM was developed to help manufacturers verify the use of hazardous substances throughout the whole production process, including all components manufactured by outside suppliers. The system also allows outside suppliers to demonstrate, through third-party assessment, that their electrical and electronic components and assemblies meet specific hazardous substance-free local, national and international requirements.

Fact

Hazardous substances in one component can contaminate the final product



→ Fact

IECQ HSPM helps you fulfil regulatory requirements across markets

Achieving IECQ HSPM Certification

The IECQ HSPM Certification to IECQ QC 080000 that was introduced and implemented by IECQ, the IEC Quality Assessment System for Electronic Components, allows companies to develop processes to identify, control, quantify and report the amounts of hazardous and toxic substances in the products they manufacture or supply.

IECQ QC 080000 builds upon the ISO 9001 quality management system framework that businesses use to manage the systematic and transparent quality processes within their organization.

How it works

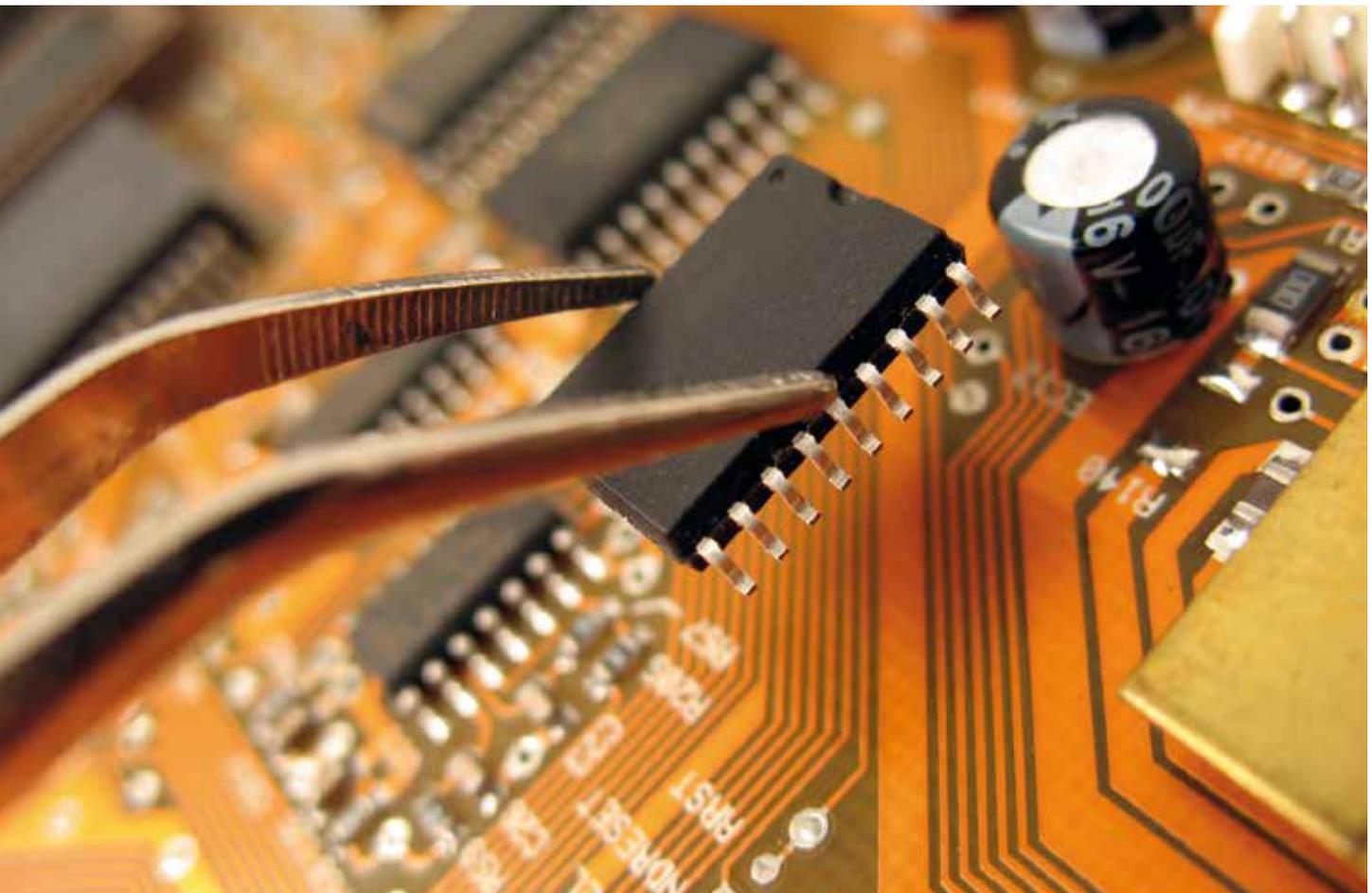
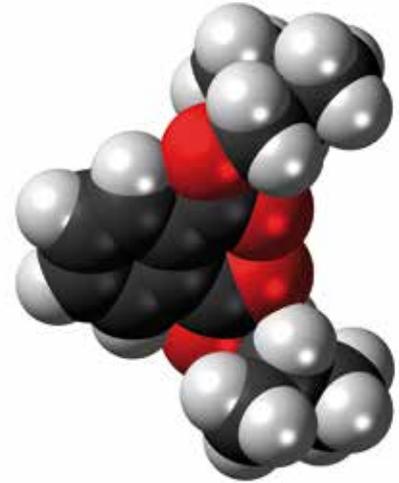
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The IECQ HSPM Certification to IECQ QC 080000 is applicable to the manufacturing of electrical and electronic components as well as related materials, both internally produced and outsourced.

To obtain certification, companies must, among other things, demonstrate the concrete efforts they undertake to reduce the use of hazardous materials in their processes and how they replace such materials with non-harmful alternatives.

Fact ←

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3D model of the diisobutyl phthalate molecule, (Carbon: black, Hydrogen: white, Oxygen: red)

In addition to helping companies attain international approval and acceptance of their electronic and electrical products, businesses can also leverage the IECQ Certification to implement customized internal HSPM activities.



Fact

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Billions of electronic components are produced every year

Strong commitment to safety

With IECQ HSPM Certification, you will meet the requirements set out by the European Union in the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS), Waste Electrical and Electronic Equipment (WEEE) Directives and Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Regulation.

Achieving IECQ HSPM Certification, you will show your strong commitment to safety for all involved, from workers on the factory floor to the consumer of electrical and electronic goods, and to the protection of the environment. It will help you boost your company's reputation and open up new business opportunities.

Why hazardous substances are increasingly regulated

Concern over the presence of hazardous substances in the production of electronic and electrical equipment has led many countries to pass legislation restricting or forbidding their use.

The consequence has been a growing pressure on electronic component manufacturers to comply with increasingly stricter regulations.



→ Fact

The use of hazardous substances is restricted or forbidden in many countries



What hazardous substances are concerned?

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Legislation restricting or forbidding the use of hazardous substances specifically targets the following:

- Lead (Pb)
Lead is commonly used in the electrical and electronics industry in solder, lead-acid batteries, electronic components, cable sheathing and in the glass of cathode-ray tubes.
- Mercury (Hg)
Mercury is widely used metals in the production of electrical and electronic appliances and is concentrated in batteries, switches and thermostats, and fluorescent lamps.

- Cadmium (Cd)
Cadmium is used in electronic equipment, car batteries, and pigments.
- Hexavalent Chromium (Cr6+)
While some forms of chromium are non-toxic, Chromium VI can produce toxic effects.
- Polybrominated biphenyl (PBB)
These are flame retardants used in electronic and electrical appliances. They have been found in indoor dust and air through evaporation from plastics.
- Polybrominated diphenyl ether (PBDE)
These are also flame retardants used in electronic and electrical appliances. Combustion of printed wiring boards release toxic emissions.

- Bis(2-ethylhexyl)phthalate (DEHP)
- Butyl benzyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)
These are plasticizers for polyvinylchloride (PVC) and other polymers including rubber, cellulose and styrene used in electronic and electrical appliances.

These chemicals are potentially harmful to human health and can seriously damage the environment.

Where are they used?

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All ten hazardous substances can be used in a wide range of electrical and electronic products and components that can be divided into the following broad categories:

- Large and small household appliances
- IT and telecommunications equipment
- Consumer equipment
- Lighting equipment used in residential, commercial and industrial areas (including luminaires and electric light bulb in households)
- Electrical and electronic power tools
- Toys, leisure and sport equipment
- Automatic dispensers

Products in any of these categories increasingly rely on electronics. They are mass-produced and sold globally. One single electronic component containing hazardous substances can have disastrous consequences, from production to recycling and waste disposal.

Fact ←

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Components used in consumer electronics are increasingly free of hazardous substances



Fact ←

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Hazardous substances may have disastrous consequences on the environment



About IECQ

IECQ, the IEC Quality Assessment System for Electronic Components, is a worldwide approval and certification system that covers the supply, assembly, associated materials and processes of a large variety of electronic components that are used in millions of devices and systems.

The IECQ Certification System provides manufacturers with independent verification that IEC International Standards and other specifications were met by suppliers who hold an IECQ certification.

The avionics and increasingly other industries depend on the IECQ Electronic Component Management Plan to assess suppliers and safely manage their components' supply chain also to avoid counterfeit merchandise. IECQ also allows manufacturers to more easily comply with increasingly strict hazardous substances regulations.

IECQ operates the following Schemes:

- IECQ AP (Approved Process)
 - IECQ AP-CAP (Counterfeit Avoidance Programme)
- IECQ AC (Approved Component)
 - IECQ AC-TC (Technology Certification)
 - IECQ AC-AQP (Automotive Qualification Programme)
- IECQ Scheme for LED Lighting
- IECQ Avionics
- IECQ HSPM (Hazardous Substances Process Management)
- IECQ ITL (Independent Testing Laboratory)

Want to know more about IECQ and IECQ HSPM?

Industries that are interested in applying for IECQ HSPM can contact the IECQ Secretariat at info@iecq.org

For further information, please visit the IECQ website www.iecq.org

IEC QUALITY ASSESSMENT SYSTEM FOR ELECTRONIC COMPONENTS (IECQ)

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