

● IECQ Electronic Component Certification Schemes



The lifespan of electronic components is shortening, and with a rising number of counterfeit products available on the market, it is vital for companies selling these products to establish the right partners and value chains to achieve and maintain their market position.

BSI partners with the International Electrotechnical Commission (IEC) Quality Assessment System for Electronic Components to support manufacturers in achieving trusted and effective supply chains that deliver genuine and innovative components, helping them to become recognized suppliers to the electronics industry.

Electrical and electronic devices and systems often comprise hundreds of components and parts. To assure leading manufacturers that components used in their products and systems meet IEC's International Standards, purchasing managers can opt for suppliers who hold IECQ certification.

Established by the IEC in 1980, IECQ is a global certification and approval scheme for electronic components, associated materials, assemblies and processes.

Acquiring IECQ certification offers several advantages to manufacturers and their customers, including product quality assurance, reduced costs, enhanced process and market acceptance. BSI certifies against IECQ at an international level and BS 9000 at a national level, each of which involves two elements:

- 1. Facility certification** – assessing a supplier's quality management system to authorize certification for a process, component or component part in accordance with a particular industry standard.
- 2. Product certification** – the supplier must demonstrate via testing that the component conforms to the manufacturer's specified quality requirements. If a supplier has an in-house testing facility, our assessors evaluate its suitability for achieving accurate results. These schemes focus on assessing the quality of the product through a selection of approvals for product quality assurance.

Key benefits:

- Participation in a wider network of approved suppliers
- Company profile improvement as a trusted supplier to the industry
- Supply chain complexity reduction
- Significant cost saving as no additional testing of components is required

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BSI can certify against the following IECQ and BS 9000 schemes:

- **IECQ AP – Approved Process (includes BS 9000 certification)**

The IECQ Approved Process Scheme provides the means for organizations including manufacturers, distributors and specialist contractors to obtain an IECQ certificate, which is intended to provide the international market with confidence that a process complies with the technical specifications listed on the certificate. The organization's quality system must satisfy the requirements of ISO 9001 (or equivalent) and the additional requirements of the IECQ system.

- **IECQ AC – Approved Component Products (includes Capability Approval and BS 9000 certification)**

IECQ Approved Component Product certification demonstrates that an organization and its facilities, through testing and other verification criteria, comply with the requirements of the IECQ system and relevant technical standards and specifications. Component products, related materials and assemblies can be supplied with a Declaration of Conformity providing confidence that they have been produced using a manufacturing process that has been successfully assessed by an independent, internationally accepted IECQ Certification Body.

- **IECQ AQP – Automotive Qualification Programme**

IECQ Automotive Qualification Programme certification allows automotive manufacturers to measure the performance of their components against automotive industry standards. The scheme covers electronic components and associated materials and assemblies (including modules) for use within automotive and other high reliability applications. The IECQ AQP helps the manufacturer to avoid multiple tests and related costs through third-party certification bodies.

- **IECQ ADHP – Aerospace, Defense, and High Performance Component Management**

Organizations holding IECQ ADHP certification have been evaluated against commercial, military and avionics equipment manufacturers' and related organizations' processes for compliance with IEC 62239-1 Electronic Component Management Plan (ECMP) and/or EIA/ANSI 4899 Plan.

- **IECQ CAP – Counterfeit Avoidance Programme**

IECQ Counterfeit Avoidance Programme certification provides an effective international certification programme for all industry sectors, including Aerospace, Defence, and High Performance (ADHP) electronic components, the assurance that an organization has processes in place to manage counterfeit avoidance in the selection and use of components according to the scheme's IECQ CAP technical and quality management system requirements.

- **IECQ HSPM – Hazardous Substances Process Management**

IECQ Hazardous Substances Process Management certification evaluates equipment manufacturers' and related organizations' processes for compliance with QC 080000. This standard specifies how organizations establish and implement key processes to manage their hazardous substances other than focusing on the removal and avoiding restricted substances in products. The organization's quality system must satisfy the requirements of ISO 9001 (or equivalent) and the additional requirements of the IECQ system.

- **IECQ ITL – Independent Testing Laboratory program (BS 9000 certification also available)**

IECQ Independent Testing Laboratory approval is available to independent testing laboratories that carry out testing to support IECQ and BS 9000 activities. Approval covers the type of tests and component ranges to be tested and the facilities available and exceed the relevant requirements of ISO/IEC 17025.

Please contact us to find out more.
Our team will be happy to help.

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