IECEx

CERTIFICATION SCHEME

Comply to Safety Standards in Explosive Atmospheres

Safe proof your business operations from potential hazards. IECEx sets standards for your organisation to adhere and comply to in order to operate efficiently and safely. SIRIM QAS lends support to the Ex industries as the sole IECEx Certification Body based in Southeast Asia, and one of the leading certification bodies in the world to offer the full range of IECEx schemes.

Managing Your Risks – The IECEx System

Business operations that are exposed to high-risk atmospheres such as oil refineries, petrol stations, chemical processing plants and treatment plants face risks of safety hazards every day. Incidents could lead to operational disruptions or worse, fatalities on-site.

The implementation of the IECEx System will help you manage and minimise these risks.

Companies can be assured that work and service in Ex areas live up to the industry benchmark, reducing the risk or any operational delays that will cost time, energy and money. This allows for the safe delivery of products and services, securing your place in key markets.

Our Services

IECEx Certified Equipment Scheme (Ex 02)

This scheme grants manufacturers of Ex equipment with IECEx Certificate of Conformity (CoC) based on IEC and ISO standards. This covers electrical and non-electrical equipment, systems and components.

Certification will provide assurance that Ex equipment meet strict safety requirements to prevent any fire and explosion hazards.

There are two types of IECEx certificates that can be issued under this scheme:

- **IECExCoC** which covers future production runs.
- **IECEx Unit Verification Certification** for a defined number of equipment under a single production run. This certificate is considered “one-off” and does not cover future production runs.

The scheme involves the following steps for issuance of CoC:

- **Test and Assessment Report (ExTR)** demonstrates that the product design conforms with the IEC 60079 standards.
- **Quality Assessment Report (QAR)** following assessment of the quality management system of the manufacturer in line with the ISO/IEC 80079-34 standard. This also involves an on-site assessment of the manufacturing location or production site.
- Issuance of I**ECEx CoC for the Ex equipment**, systems and components that conform with the relevant IEC or ISO International Standards.

Upon certification, the manufacturer will be subjected to periodic surveillance audits to ensure continuous compliance.

IECEx Certified Service Facility Scheme (Ex 03)

The IECEx Certified Service Facility Scheme assesses and certifies facilities that provide installation, design, selection, inspection, repair, overhaul, modification and reclamation services of Ex equipment. It provides assurance to the Ex community that safety is maintained and not compromised at any stage of these processes.

Service facilities are also required to meet the requirements of the IECEx rules of procedures and operational documents and have an effective implementation of an ISO 9001 quality management system with the appropriate level of staff competence.

The Scheme involves:

- Issuance of **IECEx Facility Assessment Report (FAR)** upon surveillance audits on the service facility.

- Issuance of **IECEx Certificate of Conformity (CoC)** Certified Service Facility.

The service facility will be subjected to periodic audits to ensure continuous compliance.

The CoC is evidence that the facilities’ system and practices meet relevant international standards.

IECEx Scheme for Certification of Personnel Competencies (CoPC) (Ex 05)

IECEx CoPC verifies the competence of persons engaged in the work and services related to explosive atmospheres as outlined in IEC 60079.

This covers qualification and experience in implementing safety requirements in the design, installation, operation, inspection, maintenance and repair of Ex equipment.

The personnel will be assessed based on the Units of Competence defined in the IECEx OD 504, which include:

Ex000	Basic knowledge and awareness to enter a site that includes a classified hazardous area.
Ex001	Application of the basic principles of protection in explosive atmospheres.
Ex002	Perform classification of hazardous areas.
Ex003	Installation of explosion-protected equipment and wiring systems.

Ex004	Maintenance of equipment in explosive atmospheres
Ex005	Overhaul and repair of explosion-protected equipment
Ex006	Test electrical installations in or associated with explosive atmospheres
Ex007	Perform visual and close inspection of electrical installations in or associated with explosive atmospheres
Ex008	Perform detailed inspection of electrical installations in or associated with explosive atmospheres
Ex009	Design electrical installations in or associated with explosive atmospheres
Ex010	Perform audit inspection of electrical installations in or associated with explosive atmospheres

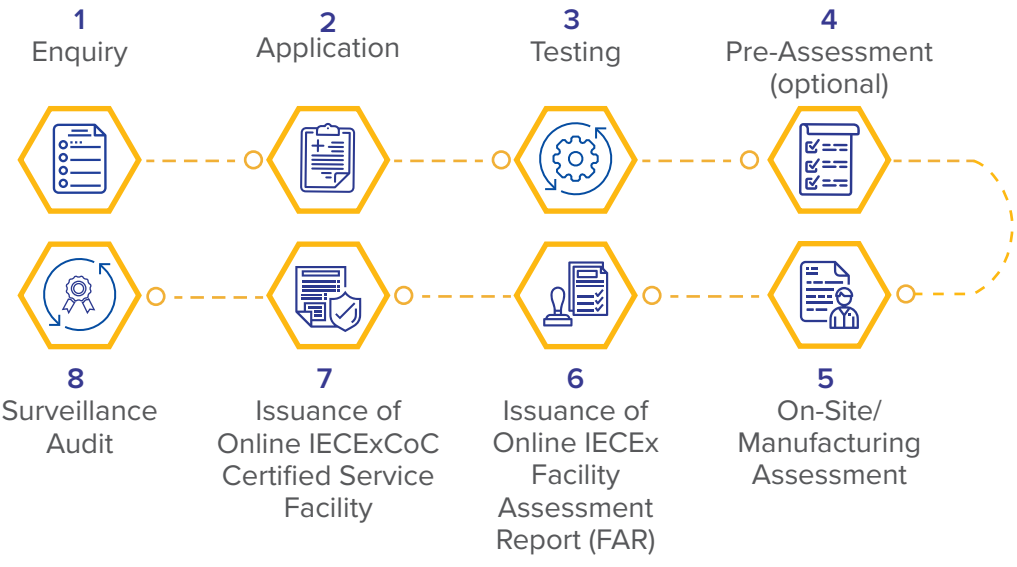
The IECEx CoPC is issued when the requirements within the scope of the scheme have been fulfilled. This enables individuals and employers to secure customer confidence in the work and services provided through our globally-recognised certification.

Why Get Certified

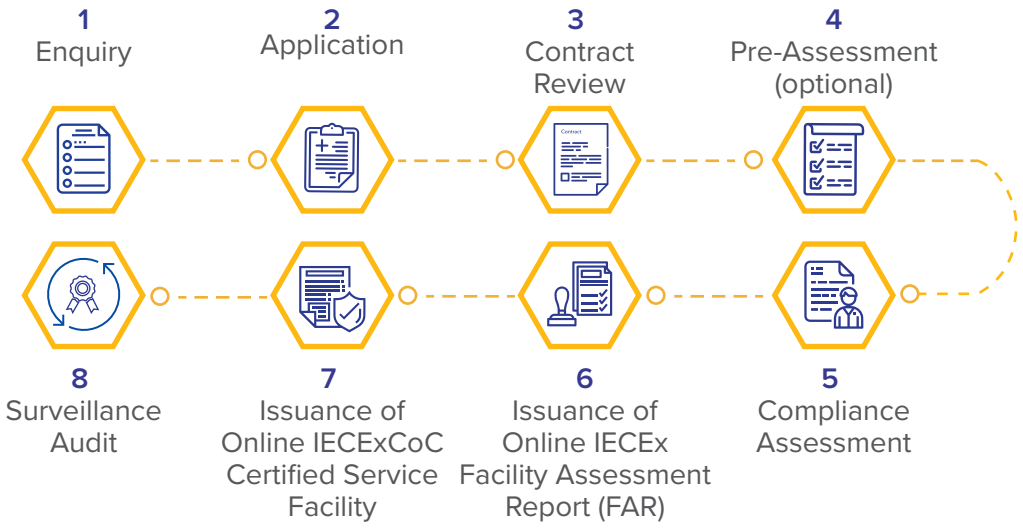
- Establish cross-industry compliance in the manufacturing and trade, maintenance and repair, handling and servicing of Ex equipment.
- Maximise efficiency and minimise interruption to operations by reducing the risks of potential hazards.
- Optimise costs of maintenance and investments in assets, which include equipment and workforce.
- Gain access to global markets by demonstrating compliance with ISO and IEC standards.
- Assure compliance to internationally-recognised and UN-endorsed standards of work and service in explosive atmospheres.

Certification Process

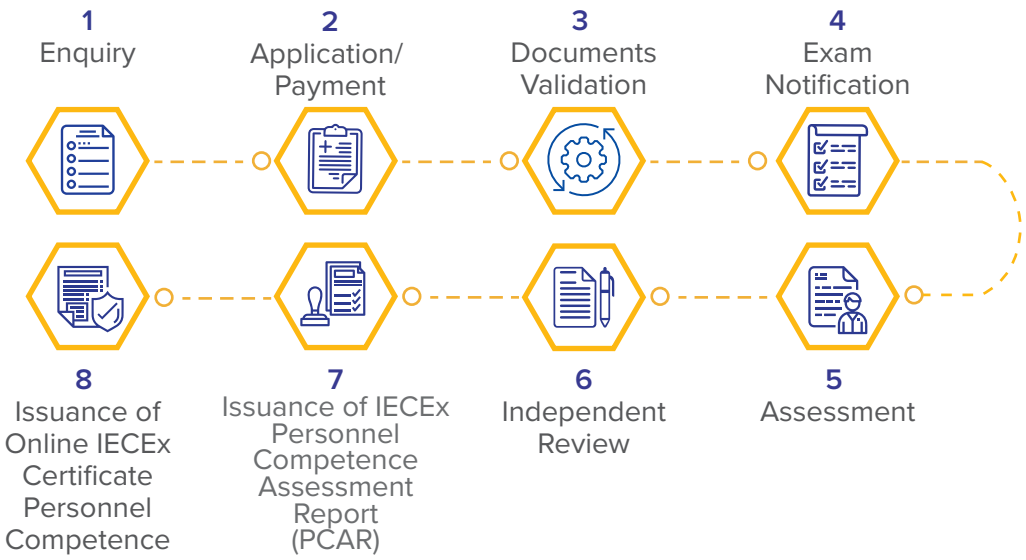
IECEx Certified Equipment Scheme (Ex 02)



IECEx Certified Service Facility Scheme (Ex 03)



IECEx CoPC (Ex 05)



SIRIM QAS - Safeguarding Your Business

SIRIM QAS is the sole IECEx Certification Body (ExCB) in Southeast Asia and one of the leading IECEx Certification Bodies in the world providing the full range of IECEx certifications. We are also a leading Conformity Assessment Body with a wealth of experience in the areas of testing, inspection and certification. Our expertise also extends to our pool of highly qualified auditors in the Ex industry.

We are accredited by the Department of Standards Malaysia (STANDARDS MALAYSIA), demonstrating the credibility of our services and the impartiality of our certification processes, enabling you to offer your products and services globally confidently.

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