Contact us

Certification Services for Explosive Atmospheres

Applus+ Laboratories tests and certifies products, personnel, and workplaces involved in potentially explosive atmospheres, following European (ATEX), North American (HazLoc) and Global Schemes (IECEx). We provide these services through our subsidiary QPS Applus+.

What is an Explosive Atmosphere?

Potential explosion risks are more common than we think and can be found in mining, oil, chemical, agricultural food and waste treatment facilities; as well as petrol stations, fuel tanker vehicles and other similar workspaces.

To keep hazardous risks at bay, any products, personnel or workplaces dealing with potentially explosive atmospheres must comply with applicable local safety standards.

In many industrialized countries, **equipment used in hazardous locations must be certified** to ensure its safety and compliance with the applicable regulations.

Our Applus+ Laboratories team provides testing and certification to meet this need, worldwide.

European Union + EFTA: CE Marking and ATEX Directive

In the European Union, all electrical and electronic products must comply with CE marking safety directives. But it's the ATEX 2014/34/EU Directive and related EN

standards that certify that potentially explosive products are compliant with official authorities and safe for use and installation with the CE and the ExMark.

As an EU-accredited ATEX Notified Body (numbers 2876 and 2900) we can provide CE Ex mark certification and support throughout the whole process, including: issuing a Type Test Report, a Certificate and a Quality Assessment Notification (QAN).

Additionally, if you only need to certify one or a limited number of units, we can conduct Unit Verification. This is a faster route to comply with both ATEX and EN standards, without going through QAN.

When it comes to workplaces subjected to explosive atmospheres, we can also assist you with provisions instilled in the 99/92/EC Directive.

United Kingdom: The UKCA Marking (UKEX)

In the UK, all equipment that's to be used in potentially explosive atmospheres must be certified by an Approved Body. We can help meet this market need as a UKCA Approved Body (number 8508) for Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016.

USA and Canada: HazLoc equipment certification and the QPS Mark

As an accredited certification body for the US (NRTL) and Canada (SCC), our QPS certification mark is considered proof of conformity by official authorities. Therefore, we can carry out the certification process for products for Hazardous Locations (HazLoc) use in both countries. When it comes to specific projects, we can also offer Field Certification as an alternative to full product certification.

In the US, the process of approving electrical products involves several official authorities. First, suppliers and manufacturers must prove compliance with OSHA's workplace safety laws. Then, they must meet all NFPA 70 installation requirements from the National Electrical Code (NEC). Finally, abide by specific local jurisdiction requirements.

In Canada, product approval related to electrical safety falls under the Jurisdiction of Provincial Governments, which stipulates that no person may manufacture, install, sell or otherwise dispose of electrical equipment unless it displays a label or mark of a certification organization accredited by the Standards Council of Canada (SCC).

- Hazloc Certification Services for North America.
- **Product Certification for HazLoc equipment:** the QPS Product Safety Mark.
- **Field Certification for HazLoc Equipment:** the QPS Field Certification Label.

Global: IECEx Schemes

The IECEx schemes allow mutual recognition of testing and certification between certification bodies. These schemes offer manufacturers a simpler way to obtain multiple national safety certifications for their products and personnel.

As an accredited Ex-Certification Body (ExCB) under the IECEx schemes, we test your Ex-product in accordance with applicable IEC standards and any national differences. We can also act as an EXCB for the Certification of Personnel Competences, known as the IECEx CoPC (IECEx05)

- IECEX Scheme for Ex Equipment and Personnel Certification

GMA+: Our Global Market Access platform

GMA+ is an online platform developed by Applus+ Laboratories, for electrical and electronics manufacturers who sell their products in multiple markets worldwide. The platform provides an updated and detailed regulatory global database for each country

and region, including all regulatory requirements, such as electrical safety, EMC, radio, Explosive Atmospheres, Rohs, and energy efficiency, among others.

Thanks to our project management module, you'll be able to efficiently plan and track your certification projects, minimizing costs and time-to-market. Merge our accredited labs and certification bodies for main international markets with our network of local partners, and you've got a formula for global success.

Certified products by Applus+ Laboratories

We test and certify a variety of products for use in potentially explosive atmospheres, including:

- Flame proof enclosures
- Intrinsically safe electrical systems
- Gas detectors
- Process control equipment
- Machines
- Communication systems
- IP protection testing according to IEC and NEMA standards
- Luminaires
- Motors, generators and turbines
- Engine repair and overhaul equipment

Choose Applus+ Laboratories for certification services for Explosive Atmospheres

We are able to handle the global market access of your Ex products. Contact us to discuss where you plan to market your products so we can help you to define the best strategy to comply with local regulations, reducing times and costs.