Hazardous locations: explosion protection services
Global certification is necessary to compete in today’s modern world

The hazardous locations industry is challenged to design and produce safe, reliable, energy efficient and innovative products to be installed in potentially explosive atmospheres for the oil and gas, petrochemical, pharmaceutical, food, mining and transportation industries. In this competitive market, global expansion complicates this daunting task by requiring manufacturers not only to identify and understand global certification requirements but also to apply them to their innovations. To compete in today’s modern world, manufacturers need to innovate safely, mitigate risks and access global markets. UL can help in this journey as a global leader in hazardous locations and explosion protection certification, testing, inspection and research.

For example, some regions may require a local certification mark while other parts of the world may use harmonized certification systems such as the ATEX Directive and IECEx Systems. UL’s specialty is to provide global certification solutions with a roadmap for market acceptance in each region of the world. Our industry leadership and technical expertise translates into actionable business efficiencies for our customers. As your partner, we can provide a single-source solution for combined product evaluation, testing and production audits, which minimizes compliance and regulatory delays—enabling you faster speed to market.

To help facilitate quicker turnaround time on projects for customers, our global HazLoc lab has been designed with automation implementation. Watch our video at UL.com/HazLoc to see how we help our customers get to market faster.

UL offers the following services: testing, certification, advisory, validation, audits and training

Certifications for global market access

Leverage UL’s relationships and brand recognition with local certification staff to help understand local regulations and obtain local certification marks using your UL, C-UL, INMETRO, ATEX or IECEx certifications. If your business takes you to other regions of the world, UL can help.

UL is one of the top issuers of global ATEX and IECEx certifications. This supports acceptance of your UL-issued certificates, test reports and quality audits for local country marks around the globe. The UL brand is highly recognized and accepted by certifiers, installers and regulators in local, regional or international markets.
The INMETRO Ordinance 179:2010 sets the rules for electrical and electronics equipment to be used in hazardous locations. To sell products in Argentina, the INMETRO Ordinance must be followed and the manufacturer must register at INMETRO.

The ATEX Directive helps ensure the free movement of goods throughout the EU and EFTA by harmonizing compliance procedures for explosion-protected equipment. The European Union must comply with the ATEX Directive (European Directive 2014/34/EU).

The GS mark is a certification mark used in Germany, Austria, and Switzerland. Products carrying the GS mark are considered to be safe and compliant with all applicable German, Austrian, and Swiss standards. The GS mark is recognized in many countries around the world as a mark of safety.

The CE mark is a conformity mark used in the European Union and most other countries in the world. A product can only carry the CE mark if it complies with all applicable EU laws, regulations, and harmonized standards. The CE mark is required for most products to be sold within the EU.

The UL Mark is recognized and accepted in countries around the world as a mark of third-party certification to explosion protective and safety requirements. Safety requirements include the risks of fire, electric shock, and personal injury hazards.

The EAC mark is a product marking to indicate that explosion-protected products conform to all technical regulations of the Eurasian Economic Union. Fire, electric shock, and personal injury hazards.

The SNAS label is used in South Africa and is recognized in the region for custom equipment. It indicates that the equipment meets the Ordinary location/Non-Electrical standard.
By having UL’s technical expertise at their fingertips, UL’s mobile app benefits designers, manufacturers, distributors, inspection and regulatory AHJs, and end-users across oil and gas, chemical, agricultural, pharmaceuticals, offshore and mining industries. This comprehensive source for installation principles, including the ability to find the needed standards and competencies, is available in: English, Simplified Chinese, Traditional Chinese, German, Portuguese and Spanish.

Installation principles for explosive atmospheres:
- Types of explosive atmospheres
- Likelihood explosive atmosphere is present
- Ignition-related properties of atmospheres
- Temperature classifications
- Methods of explosion protection
- Markings required by national/regional regulations
- National, regional and international standards
- Ingress Protection (IP) codes and type ratings
- Available in: English, Simplified Chinese, Traditional Chinese, German, Portuguese and Spanish

Why UL for Hazardous Locations?
UL’s global research and standards to continually advance and meet ever-evolving product safety, performance and interoperability needs. UL’s global network of technical experts and state-of-the-art facilities—along with our long-standing relationships with regulatory authorities, partner laboratories and industry technical leaders—helps manufacturers gain the compliance insights they need to compete in a more complex global supply chain. Leverage our global brand acceptance and trust to add value to your innovations.
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