



LCIE



ATEX DIRECTIVE 2014/34/EU

Equipment for potentially explosive atmospheres

MANUFACTURERS, INSTALLERS, ENGINEERING COMPANIES, DESIGNERS, INTEGRATORS, ASSEMBLERS...

- ✓ You need to know about mandatory requirements
- ✓ You need to assess your Ex product manufacturing processes
- ✓ You need to assess conformity of your electrical and non electrical products
- ✓ You need to have them certified
- ✓ You want to market them outside Europe

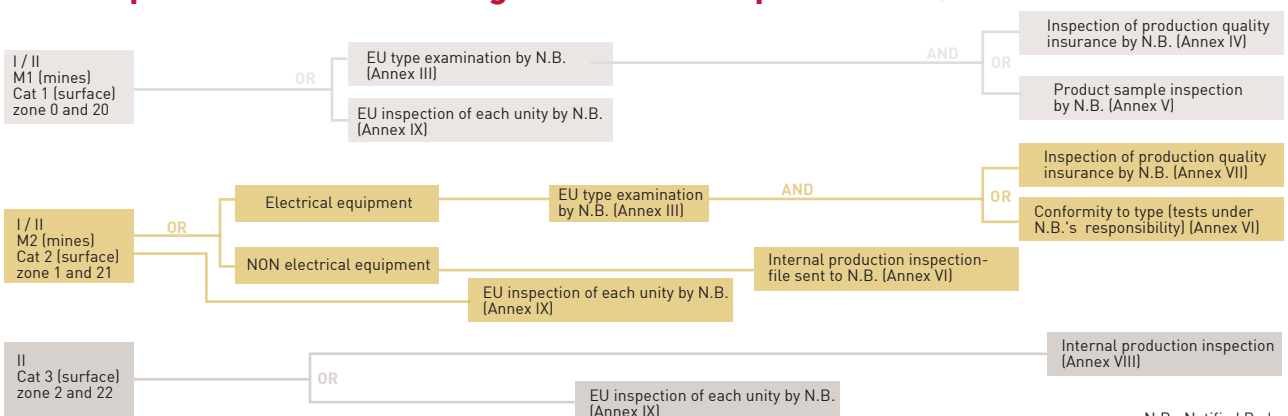
LCIE, European Notified Body for all the modules of the ATEX Directive

ATEX DIRECTIVE 2014/34/EU

- ✓ Is a « new approach » directive
- ✓ Concerns MINES and SURFACE industries
- ✓ For Gas and Dust explosive atmospheres
- ✓ Defines the essential Health and Safety requirements applicable to products
- ✓ Concerns electrical and non electrical products
- ✓ Deals with potentially inflammable substances
- ✓ Introduces a new marking
- ✓ Requests checking of design and manufacturing
- ✓ Stresses manufacturer's responsibility

CONFORMITY ASSESSMENT PROCEDURES

(different possibilities according to volumes of production)

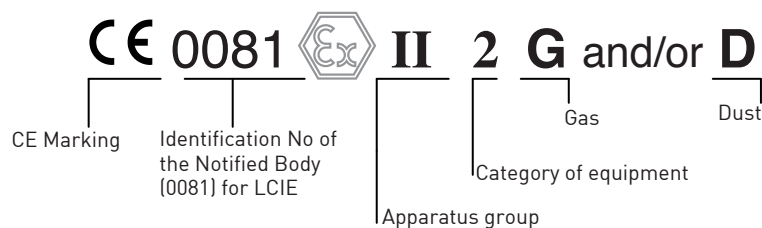


N.B.: Notified Body

CLASSIFICATION OF EQUIPMENT BY GROUP AND CATEGORY ACCORDING TO THEIR INTENDED USE:

	Category of equipment	Inflammable substances	Level of protection	Types of protection	Practical comparison	
					Gas	Dust
Apparatus group II	1	Gas, vapours, mist and Dust	Very high level	- 2 independent types of protection - protection maintained after 2 consecutive independent faults	Zone 0	Zone 20
	2		High level	- 1 type of protection (frequent and usual malfunction) during normal functioning	Zone 1	Zone 21
	3		Normal	Level of protection required during normal functioning	Zone 2	Zone 22

EXAMPLE OF MARKING:



SERVICES OFFERED BY LCIE BUREAU VERITAS

- ✓ **Testing according to applicable standards or requirements :** IEC, CENELEC, CSA, UL, FM, BS, MIL, etc.
- ✓ **Technical assistance :** certification procedures, knowledge of standards
- ✓ **Audits, expert examination, studies, assessments :** quality insurance, standardization development, risk analysis, zoning, on site inspection, electrostatics, special explosion tests
- ✓ **Certification / EU type examination :** equipment, assemblies, systems, components
- ✓ **Certification :** IECEx
- ✓ **Multidirective services :** RED, EMC, Machines, Low Voltage, Individual Protective Equipment, etc.
- ✓ **Training :** general and customized to clients' needs.

INTERNATIONAL CERTIFICATION :

access to national certifications for China, Korea, Brazil, Russia

LCIE has carried out several recognition agreements specific to potentially explosive atmospheres with the following foreign bodies:

- **China:** CQST, NEPSI-SIPAI, PCEC, CCTEG
- **Korea:** KGS KTL
- **Russia:** NANIO-CCVE
- **India:** ERTL

OTHER AGREEMENTS:

- **BV Brazil, NCC (Brazil):** Recognition of tests and factory inspections for access to the Brazilian market (INMETRO) for low voltage electrical equipment and equipment intended for use in potentially explosive atmospheres.

OTHER OFFICIAL RECOGNITION:

- **US Coast Guard (United States):** recognition of tests and certification.

ACCREDITATIONS:

- LCIE has been designated by the French Ministry in charge of Industry for certification of ATEX electrical equipment categories 1, 2 and 3.

- LCIE is accredited by COFRAC - test section n° 1-0311- for tests on equipment intended for use in potentially explosive atmospheres



LCIE is a founding and an active member of IECEx

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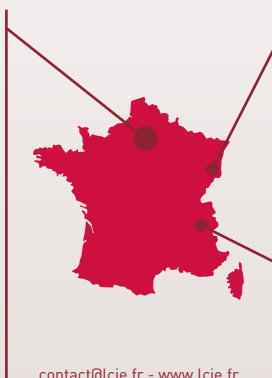
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