

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

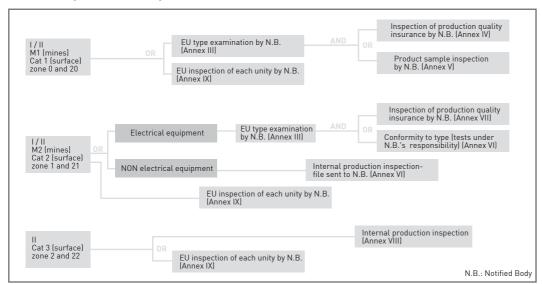
LCIE, European Notified Body for all the modules of the ATEX Directive



■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

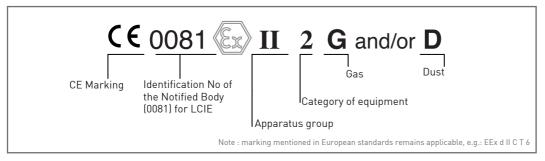
Conformity assessment procedures (different possibilities according to volumes of production)



Classification of equipment by group and category according to their intended use:

Apparatus group II	Category of equipment	Inflammable substances	Level of protection	Types of protection	Practical comparison	
					gas	dust
	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 Bureau Veritas and LCIE

- 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,
- Voluntary certification : IECEx,
- Multidirective services: 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 brasilian 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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