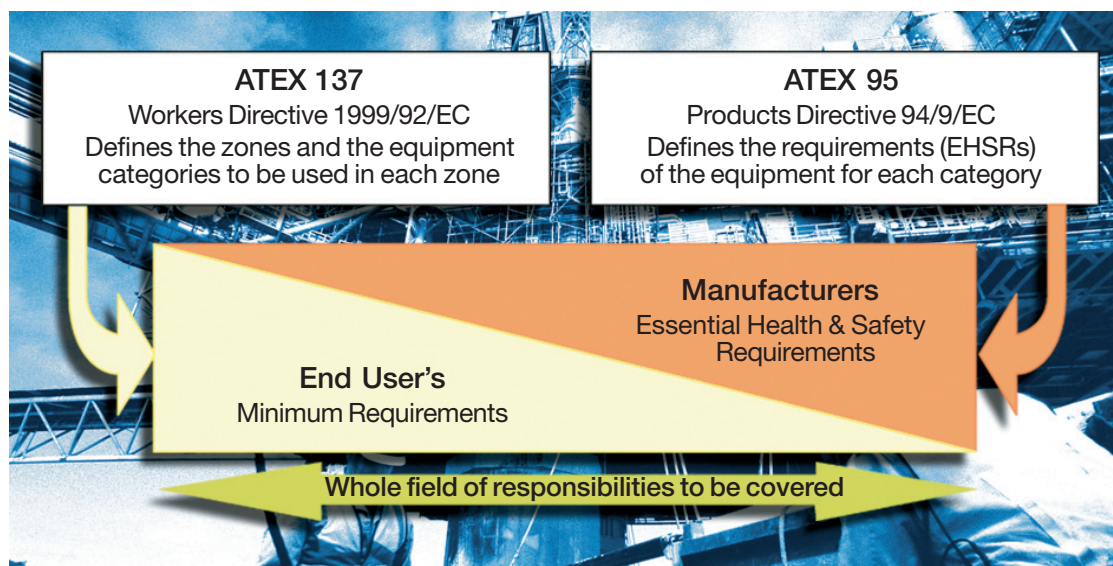


# Fundamentals of the ATEX Directives



TM15 EN Rev A, 2004



## Technical Notes

### New areas of responsibilities

ATEX Directives harmonise the safety rules in respect with the free trading principles of the European Community.

Now the responsibilities are split in two areas between the manufacturers and the end users. The manufacturers must comply with the “Essential Health and Safety Requirements” of the Products Directive 94/9/EC, or ATEX 95; and the end users must proceed to make an extensive risks analysis of their “work places” and “work equipment” to fulfil the “minimum requirements” listed in the Worker Protection Directive 99/92/EC, or ATEX 137.

### New certification and documentation

Manufacturers are submitted to new certification procedure which includes a “Product” and “Production” Quality Assurance Notification leading to the CE marking on the work equipment.

End users must put in writing all their instructions to install, inspect, operate, maintain and repair their work equipments and work places in one book, the “Explosion Protection Document”..

### Dates of enforcement

The ATEX Directives apply as of July 1, 2003 and enter in force in each country with the publication of the corresponding national regulations.

Since this date, the article 9 of the Directive 137 specifies how old and new “work equipment” and “work places” must comply with the “minimum requirements” as of July 1, 2003.

### Main standards for implementation Worker Protection Directive (ATEX137)

EN 60079-10	Classification of gas areas
EN 50281-3	Classification of dust areas
EN 60079-14	Installation rules
EN 60079-17	Inspection and Maintenance rules for Gas
IEC 60079-19	Repair and Overhaul rules
EN 50281-1-2	Installation and Maintenance of DIP equipment

### Products Directive (ATEX 95)

EN50014	General requirements
EN50016	“p” Protection
EN 50018	“d” Protection
EN 50019	“e” Protection
EN 50021	“n” Protection
EN 50281-1-1	“DIP” Protection
EN 13463-1	Non-Electrical equipments

ABB refers to recently updated standards

In the implementation of ATEX 95 and ATEX 137 directives ABB refers to the IEC or EN standards which have been recently updated (please see the text boxes on left).





TM15 EN Rev A, 2004

# Technical Notes

## New zone and category definitions

The risks analysis requested by the Worker Protection Directive (ATEX 137) leads to new zones definition, especially with dust, and introduces the definition of corresponding category of equipment.

## New practices

The requirements for installation, maintenance or repair, as described in the standards, depend on the category of the equipment and not of the zone where they are installed.

## New responsibilities for the third parties and repair shops

In the past the service providers were acting as expert in their own business, especially when certified by local authorities.

They were sharing the responsibility of safety with the end users.

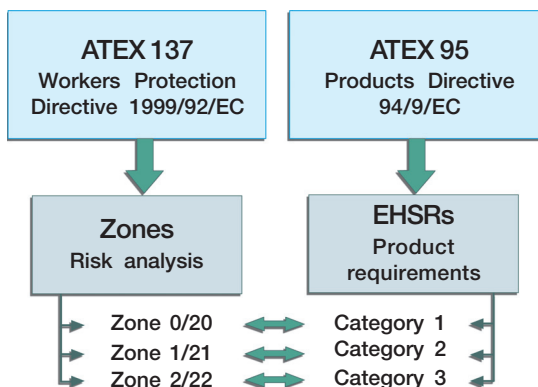
Since July 1, 2003 all third parties must work on equipment under the responsibility of either the end user in compliance with the ATEX 137 or the manufacturer in respect of the ATEX 95.

## Minimum requirements

Since July 1, 2003 the "Minimum Requirements" apply to **old and new** work equipments, they are defined in part A of the Annex II of the Worker Protection Directive (ATEX 137) and cover :

- Training programs
- Written instructions

## New responsibilities for the third parties and repair shops



The manufacturer shall provide to the end user all the necessary documentation and instructions (as per ATEX 95), and the end user shall respect them unless he can use his own instructions fulfilling the "Minimum requirements" of the ATEX 137.

These documentations and instructions shall be included in the "Explosion Protection Document" as part of the risks analysis.

**For more information about ATEX directives please visit our web-site at [abb.com/motors&drives](http://abb.com/motors&drives) → Motors → Hazardous area motors and generators**



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