

EX Safety Introduction

ATEX (ATMosphères EXplosibles) is a European directive that addresses the safety of equipment used in potentially explosive atmospheres. These atmospheres can be caused by flammable gases, vapours, mists, or combustible dusts. Here are some general safety instructions for working in ATEX environments:

Understand the ATEX Zone Classification:

ATEX environments are classified into zones based on the likelihood and duration of the presence of explosive atmospheres. It is crucial to understand the zone classification of the area you are working in.

Use ATEX-Certified Equipment:

Only use equipment that has been certified for use in explosive atmospheres. ATEX-certified equipment is designed and tested to meet specific safety standards.

Follow Equipment Installation Guidelines:

Install ATEX-certified equipment according to the manufacturer's guidelines. Ensure that installations comply with the ATEX directive and local regulations.

Regular Equipment Inspection and Maintenance:

Conduct regular inspections and maintenance of ATEX equipment to ensure its proper functioning. Replace damaged or worn-out components promptly.

Control Static Electricity:

Static electricity can be a significant ignition source in explosive atmospheres. Implement measures to control and dissipate static electricity, such as using anti-static equipment and grounding.

Avoid Hot Work:

Minimize hot work activities (welding, cutting, etc.) in areas with explosive atmospheres. If unavoidable, follow proper procedures, and ensure that all necessary precautions are taken.

No Smoking or Open Flames:

Prohibit smoking and the use of open flames in areas with explosive atmospheres. Provide designated smoking areas well away from hazardous zones.

Train Personnel:

Ensure that personnel working in ATEX environments are adequately trained on the potential risks, safety procedures, and emergency response plans.

Emergency Procedures:

Establish clear emergency procedures, including evacuation plans and methods for notifying personnel in case of an emergency. Conduct regular drills to ensure everyone is familiar with the procedures.

Risk Assessment:

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Torres de Hercules

Los Barrios 11379

Cadiz Spain

Engineering

Automation

Electronics

Safety systems

Pollution prevention

Gas detection

Metrology

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World Trade Center

6 Bayside, Unit 1.02

GX11 1AA

Gibraltar

Partners

Calgaz UK

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Schneider Electric

Krohne

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MMC

Perform a thorough risk assessment of the workplace to identify potential sources of ignition and implement measures to mitigate these risks.

Use Personal Protective Equipment (PPE):

Provide appropriate PPE for personnel working in ATEX environments. This may include flame-resistant clothing, safety helmets, and anti-static footwear.

Monitor and Ventilate:

Use gas detectors and monitoring systems to continuously monitor the atmosphere in ATEX zones. Implement adequate ventilation systems to control the concentration of flammable substances.

Remember that specific safety instructions may vary based on the nature of the industry, the type of explosive atmosphere, and local regulations. Always refer to the relevant ATEX documentation and seek guidance from safety professionals.

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