



The Dangerous Substances and Explosive Atmospheres Regulations 2002

The Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR) in the UK and ATEX in Europe require employers to control the risks to safety from fire and explosions.

Dangerous substances can put peoples' safety at risk from fire and explosion. DSEAR puts duties on employers and the self-employed to protect people from risks to their safety from fires, explosions and similar events in the workplace, this includes members of the public who may be put at risk by work activity.

Royal HaskoningDHV's trained and experienced inspectors can provide assistance and guidance in DSEAR and ATEX compliance. The services Royal HaskoningDHV can provide include:

- Area classification and zoning
- Verification of the effectiveness of the explosion protection measures you have in your workplace
- Implementation of a structured periodic inspection and maintenance strategy
- Modification of your existing health and safety management system to demonstrate compliance with DSEAR

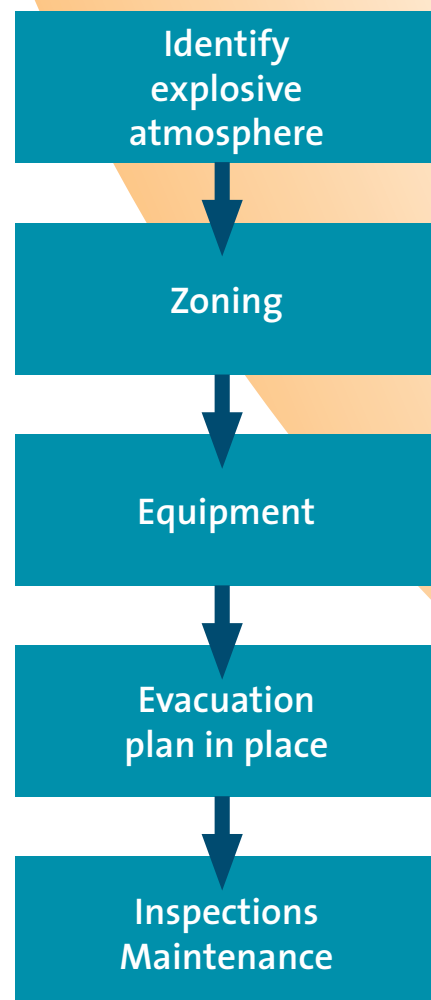
All inspections and assessment services can be carried out by IEC Ex CoPC qualified engineers.

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Provisions	DSEAR (UK)	ATEX 99/92/ EC	Guidance
Assess the risks and identify the necessary control measures.	Reg. 5	Article 4.1	HSE ACOPs L138 & L136
Implement the necessary technical and organisational measures including suitable provision for accidents and emergencies.	Reg. 6 Schedule 1	Article 3	HSE ACOP L138
Classify the areas where potentially explosive atmospheres may exist into zones.	Reg. 7 Schedule 2	Article 7.1	EN 66079-10-1 EN66079-10-2 Industry Codes
Mark the classified areas using the appropriate warning signage.	Reg. 7 Schedule 4	Article 7.3	HSE ACOP L138
Inspect, assess, modify or replace the equipment on the basis of the level risk and the ability of the equipment to create a source of ignition.	Reg. 5 & 6 Schedule 1	Article 3 & 4.1	4.1 EN 60079-17 EN 60079-14 EN 60079-19
Ensure personnel at risk, and others who could potentially be affected, receive appropriate training.	Reg. 9	Annex II 1.1	HSE ACOP L138
Create and maintain and Explosive Protection Document (EPD - ATEX 99/92/ EC requirement only) or equivalent document referencing the necessary information (UK only) for the identified hazardous areas. Documentation must include an effective equipment maintenance and inspection regime.	Reg. 5	Article 8	HSE ACOPs L134-L138 EN 60079-17
Regularly review and audit the areas and systems to ensure that they remain effective.	Reg. 5	Article 3	HSE ACOP L138

Note 1: DSEAR Reg. 7(4), ATEX 99/92/EC, Annex II 2,8 Prior to new plant and facilities being used for the first time, the overall explosion safety shall be verified by competent personnel. Note 2: DSEAR Reg. 11 Article 6, where workers from several undertakings are present in the same workplace, the employer responsible for that work-place must co-ordinate the health and safety measures.



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