

ENGAGING, RELEVANT, COST EFFECTIVE TRAINING

DSEAR Online Training

£17.50 + VAT

Health and Safety Training
Dangerous Substances and Explosive Atmospheres Awareness

The DSEAR

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The **Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR)** aim to protect people from fire and explosion risks related to dangerous substances and potentially explosive atmospheres.

DSEAR complements the Health and Safety at Work Act 1974, which requires employers to manage health and safety risks to their employees and others who might be affected by their activities. DSEAR specifically addresses risks of dangerous substances.

▶ Click **NEXT** to move on.

i The Dangerous Substances and Explosive Atmospheres Regulations (Northern Ireland) 2003 cover dangerous substances and explosive atmospheres in Northern Ireland.



▶ Click **NEXT** to move on.

Health and Safety Training
Dangerous Substances and Explosive Atmospheres Awareness

Fires and Explosions

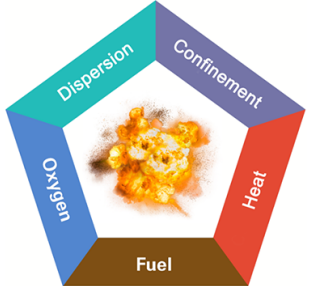
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In addition to the three elements of the fire triangle, a dust explosion needs two additional elements: **dispersion** and **confinement**. This creates a dust pentagon, as shown here.

Dispersion means the fine dust particles are suspended in the air, creating a dust cloud.

Confinement means the dust is contained within an enclosed or partially enclosed space, such as a silo, factory room, or piece of equipment.

When an ignition source is introduced, the suspended dust particles ignite and burn rapidly. This combustion releases heat, which ignites nearby dust particles, creating a chain reaction. As the fire spreads, it rapidly consumes oxygen and generates a sudden release of energy, causing a rapid pressure buildup and explosion.



▶ Click **NEXT** to move on.

- ✓ **Audio voiceover**
- ✓ **Downloadable certificate on completion**
- ✓ **100% online training**
- ✓ **No time limits**

Our DSEAR training course helps individuals understand the risks of dangerous substances and explosive atmospheres in the workplace. It explains control measures that must be in place to keep workers safe and provides general safety precautions workers can use when working with dangerous substances.

The training is suitable for individuals who work in food processing and storage facilities, automotive and aircraft repair, woodworking workshops, agriculture, construction, pharmaceutical, and textile manufacturing.

The approximate duration of this training is 2 hours.

PURCHASING FOR YOUR ORGANISATION

If you are buying for your organisation rather than for yourself, it is simple for you to add learners, assign training and print certificates. You will have a dashboard to monitor learner progress.

Our training licences **don't expire** and are only assigned to a learner when they launch the training. Substantial discounts are available for bulk purchases.

Learners are able to download their certificate on successful completion of the online assessment.

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DANGEROUS SUBSTANCES

- What is meant by the term dangerous substance.
- Why dangerous substances are present in the workplace.
- Examples of different types of dangerous substances.
- The risks of working with dangerous substances.

EXPLOSIVE ATMOSPHERES

- What is meant by the term **explosive atmosphere**.
- How explosive atmospheres can form.
- Where explosive atmospheres can be found.

FIRES AND EXPLOSIONS

- The three essential elements needed for a fire.
- The sources of ignition that can be found in the workplace.
- How fires and explosions that involve explosive atmospheres occur.
- How a dust explosion occurs.
- What human actions lead to fires and explosions in explosive atmospheres.

THE DSEAR

- The aim of DSEAR.
- The relationship between DSEAR and the EU's ATEX Directives.
- When DSEAR applies.
- The duties DSEAR places on employers, the self-employed and employees.
- The principal steps in DSEAR risk assessment.
- Legislation related to DSEAR.

CONTROL MEASURES

- The order of priority when choosing control and mitigation measures.
- What is meant by hazardous area classification.
- The requirements for equipment and protective systems for use in explosive atmospheres.
- Common types of equipment and protective systems used within hazardous areas.
- Important considerations concerning work clothing.

GENERAL SAFETY PRECAUTIONS

- Safe practices for storing, handling, and using flammable liquids, gases and dust.
- The risks associated with careless storage, handling, and use of dangerous substances.
- The immediate actions you should take in an emergency situation involving dangerous substances.