

COURSE CONTENT OVERVIEW

Hot Work



There are many significant health hazards and risks associated with hot work activities. Hot work activities are the cause of many workplace accidents, often resulting in fatalities or serious injuries, as well as many cases of ill-health. Due to the nature of the work, there is also a risk of major fires and explosions, resulting in loss of buildings, plant and equipment.

This online course will help you to understand the main hazards and subsequent risks of hot work - including hot work on roofs, roads, during welding and cutting, and on tanks and drums - and introduce you to some of the control measures that you may need to have in place to control these risks.

Module 1: Hot Work Dangers and Legal Requirements

This module explains what hot work is, where it is typically carried out and outlines the various health and safety risks that can be caused by hot work. It also explains your responsibilities under UK legislation, including the DSEAR Regulations.

- What is hot work and where is it carried out?
- Types of hot work
- Health and safety risks from hot work
- Examples of flammable and explosive substances
- The Health and Safety at Work (HSW), etc. Act 1974
- The Management of Health and Safety at Work Regulations (MHSWR) 1999
- The Dangerous Substances and Explosive Atmospheres Regulations 2002
- When does DSEAR apply?
- Key control measures under DSEAR
- Employee responsibilities

Module 2: Risk Assessments for Hot Work

This module looks at each of the vital elements of a risk assessment and includes a detailed explanation of each of the five steps. It helps you to understand the requirements of a suitable and sufficient risk assessment when conducting hot work. It also discusses the hierarchy of control and safe systems of work.

- The five steps to risk assessment
- Key terminology
- Who should carry out the risk assessment?
- Step 1: Identify the hazards
- Step 2: Decide who might be harmed and how
- Step 3: Evaluate the risks and implement controls
- Step 4: Record your findings
- Step 5: Review and update
- The hierarchy of control and hot work permits
- Safe systems of work
- What is a hot work permit-to-work?

Module 3: Control Measures for Hot Work Part 1

This module describes some of the key ways to both avoid and to control risks caused by the most common types of hot work. This includes fire safety, hot work on roofs, roads, and hot work involving welding and cutting. It also contains information on the use of petrol to power plant and work equipment, and the safe handling and use of flammable liquids.

- General fire safety
- The fire triangle
- Hot work in confined spaces
- Hot work on tanks and drums
- Hot work on roads
- Hot work on roofs
- Hot work involving welding and cutting
- Welding and cutting gas cylinders
- Flammable gases
- Safe storage, handling and use of flammable gases
- Handling and use of flammable liquids
- Petrol for powered tools and equipment
- Standards for petrol containers

Module 4: Control Measures for Hot Work Part 2

This module considers the general hazards, risks and controls that must be considered when preparing for hot work and included in the risk assessment. This includes safe places of work, safe work equipment and hazardous substances. It also includes information on hot work permits-to-work, and training, information and instruction.

- Health hazards and risks from hot work
- Safe substances for use at work
- Dangerous and hazardous substances
- Isolation of plant and machinery
- Safe places of work
- Ventilation for hot work
- Safe work equipment
- Personal protective equipment (PPE)
- Hot work permits-to-work
- Training, information and instruction
- Supervision and monitoring of work
- Emergency arrangements

Aims of the training

By the end of this course, you will be able to explain:

- The dangers of hot work.
- The legal duties of employers and others in relation to hot work.
- The importance of risk assessment for hot work and how this is done.
- The importance of the hierarchy of control, and the need to ensure that the hierarchy of control is followed in all risk assessments for hot work.
- The main types of work activity that cause risk and the main control measures that should be taken for those activities.
- The importance of monitoring to ensure that the risk assessments remain effective.
- The importance of providing information, instructions and training to those managing, supervising and carrying out work.