

Work safely in the land-based engineering work area

Overview

This standard covers working safely in the land-based engineering work area. It includes the basic health, safety and environmental responsibilities in a land-based engineering environment.

Recognise and reduce hazards in the land-based engineering work area

This section includes being able to recognise and reduce hazards that may be encountered in the land-based engineering work area, which includes employers' premises, customers' premises and work transport. Hazards include those arising from the use of tools, equipment and components as well as those arising from the immediate work area.

Identify and deal with emergencies in the land-based engineering work area

This section covers how to respond appropriately to an emergency situation, for example, an accident, injury, fire or dangerous occurrence. It also includes near misses (i.e. when an accident or other emergency nearly occurred).

Contribute to the reduction of the environmental impact of work activities

This section covers increasing awareness of environmental issues and reducing the impact of work activities by applying work practices that will reduce the risk of environmental damage.

This standard is for those who work in land-based engineering.

Work safely in the land-based engineering work area

Performance criteria

You must be able to:

Recognise and reduce hazards in the land-based engineering work area

1. work safely, cleanly and tidily at all times, complying with health and safety legislation and codes of practice as well as company health and safety policy and procedures
2. recognise personal limitations, industrial processes, tools, **equipment** and materials that have the potential to cause harm
3. select and use the appropriate personal protective equipment (PPE) required to complete a task
4. check for **hazards** in the work area in line with company health and safety procedures
5. take appropriate actions to minimise any identified health and safety **risks**
6. report and record hazards identified and outline any actions you have taken using the appropriate methods laid down in the company health and safety procedures
7. communicate any health and safety precautions that are being applied in the work area to others entering the area

Identify and deal with emergencies in the land-based engineering work area

1. implement procedures safely, correctly and without delay in an emergency situation, taking care to minimise risk of personal and third-party injury
2. follow shutdown and evacuation procedures correctly and use warning systems and barriers as appropriate
3. identify and use appropriate fire-fighting equipment where it is safe to do so
4. take action to inform **appropriate people** and complete required records
5. take the appropriate action to contain and clean up spillages

Contribute to the reduction of the environmental impact of work activities

1. apply **work practices** that will reduce the risk of environmental damage
2. handle, use and store **hazardous substances** in accordance with manufacturers' data sheets and company procedures
3. dispose of waste materials arising from work activities in accordance with current legislation and company procedures, taking account of any recycling opportunities
4. deal with spillages and leakages that could lead to pollution and contamination

Work safely in the land-based engineering work area

Knowledge and understanding

You need to know and understand:

Recognise and reduce hazards in the land-based engineering work area

1. your own and the company's responsibilities and rights under current health and safety legislation and codes of practice
2. company health and safety policy and procedures
3. how to recognise and interpret the meaning of international safety signs and warning symbols
4. the importance of continually checking for hazards in the land-based engineering work area
5. the appropriate actions to take to minimise the risks associated with these hazards
6. company health and safety reporting and recording procedures and requirements
7. types of personal protective equipment (PPE) and their use

Identify and deal with emergencies in the land-based engineering work area

1. the types of emergencies that may occur in the land-based engineering work area and the correct actions to take
2. company procedures for first aid including the location of the first aider and first aid equipment both on and off site
3. the evacuation procedures for your work area
4. different types of fires and the correct application of fire fighting equipment
5. company procedures for reporting and recording accidents and incidents
6. action to take to minimise the risk of personal and third-party injury including the use of warning systems and barriers
7. how to shutdown and isolate equipment
8. how to contain and clean up spillages

Contribute to the reduction of the environmental impact of work activities

1. the laws and regulations in relation to minimising damage to the environment
2. how to reduce the damage that work activities may cause to the environment
3. methods and procedures of handling, using and storing hazardous substances
4. waste disposal methods and procedures (including recycling)

Glossary

hazard - something that could cause harm to yourself or someone else, e.g.

- working on contaminated machinery
- working with substances hazardous to health
- removing and replacing guards
- removing fire, slip and trip hazards
- securing objects in danger of falling
- removing fumes, dust, hazardous gases and vapours
- releasing stored pressure
- working in elevated and confined conditions
- handling pressured gas cylinders and stored gases
- working with electricity
- lifting and moving loads
- bad lighting
- fumes
- spillages
- lone working
- fatigue

hazardous substances - e.g. chemical cleaners, fuels, gases, lubricants, paints, thinners, battery acid, coolants

risk - the likelihood of a hazard actually causing harm

work practices - e.g. recovery of refrigerant gases, cleaning of chemical application machinery, recovery of oils, and fuels, liquid ballast, selection of non-toxic substances.

Work safely in the land-based engineering work area

Developed by	Lantra
Version Number	2
Date Approved	December 2015
Indicative Review Date	December 2020
Validity	Current
Status	Original
Originating Organisation	Lantra
Original URN	LANLEO1
Relevant Occupations	Land-based Engineering
Suite	Land-based Engineering Operations
Keywords	health; safety; hazards; emergencies; environmental