

Service and repair land-based transport, handling and storage equipment

Overview

This standard covers the service and repair of land-based transport, handling and storage equipment. It includes the underpinning knowledge of the construction and operating principles of:

- Implements and machinery
- Fixed equipment and storage facilities.

It includes the recognition of faults, methods of repair, calibration and verification of performance. Equipment covered can be found in one or more of the following associated sectors of land-based engineering, e.g. agriculture, horticulture, amenities, ground care, arboriculture and forestry.

The equipment covered in this standard is transport and handling equipment which could include lifting, latching/hitching, augers, elevators, conveyors, trailers tankers, bowsers, self-propelled carriers, suction/blower, timber forwarders, winches and cable systems. Some equipment in this standard relates to storage equipment which could either be fixed or mobile but may include tanks, clamps, silos, storage bins, environmentally controlled or bi-product storage systems.

This standard is for those who work in land-based engineering and is appropriate for persons working under supervision.

Note: where those working on a certain type of equipment, e.g. forklift trucks, need to operate it to check it is in working order, then specific training may be required to meet Health and Safety Executive (HSE) requirements.

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Performance criteria

You must be able to:

1. remove and replace components from land-based transport, handling or storage equipment
2. dismantle, service/repair and reinstate land-based **transport and handling equipment** to manufacturers' specifications
3. dismantle, service/repair and reinstate land-based **storage equipment** to manufacturers' specifications
4. remove blockages from land-based transport, handling or storage equipment

Knowledge and understanding

You need to know and understand:

1. how to remove and replace land-based transport, handling and storage equipment and/or components
2. how to dismantle, service/repair and reinstate land-based transport, handling and storage equipment and/or components to manufacturers' specifications
3. how to identify and isolate **services** from fixed equipment
4. the construction and working principles of land-based transport and handling equipment
5. the construction and working principles of bulk storage equipment
6. the methods of shortening, lengthening and joining elevators and conveyors
7. the appropriate methods of removing blockages from land-based transport handling or storage equipment
8. how to install and commission new land-based transport, handling and storage equipment

Glossary

services - e.g. oil, water, gas, electricity, fuel

storage equipment - e.g. crop, fodder, slurry stores/silos, milk tanks, ingestors

transport and handling equipment - e.g.

- lifting equipment e.g. handlers, cranes, forklifts, loaders, elevating platforms
- latching/hitching systems
- augers, elevators, conveyors
- trailers, tankers, bowsers, feed/mixer/forage wagons self propelled carriers, e.g. mule, golf buggies
- suction and blowers
- timber forwarders, winches, sky lines and cable systems

Links to other NOS

Refer to LEO1 Recognise and reduce hazards in the land-based engineering work area, for guidance on safe working practices.

Refer to LEO4 Apply core land-based engineering principles: mechanical principles, for guidance related to fundamental engineering principles and practices.

Refer to LEO29 Monitor the handover and installation of land-based equipment, for guidance related to operational requirements.

Refer to LEO2 Implement organisational procedures in land-based engineering, for guidance related to procedural or administrative recording and reporting practices.

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