

## LANLEO20 - SQA Unit Code F9GH 04

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



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#### Overview

This standard covers the underpinning knowledge of the construction and operating principles of:

1. Implements and machinery
2. 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, bowserswagons, 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.

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#### Performance criteria

*You must be able to:*

- P1 remove and replace components from transport, handling or storage equipment
- P2 dismantle, repair and reinstate transport and handling equipment, e.g. lifting, winching, latching/hitching systems, conveyors, elevators and augers
- P3 maintain, repair and reinstate storage equipment to manufacturers' specifications, e.g. crop, fodder, slurry stores/silos, milk tanks, ingestors
- P4 remove blockages from transport, handling or storage equipment

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#### Knowledge and understanding

*You need to know and understand:*

- K1 how to remove and replace transport, handling and storage equipment and/or components
- K2 how to dismantle, repair and reinstate transport, handling and storage equipment and/or components to manufacturers' specifications
- K3 how to identify and isolate services from handling and storage equipment, e.g. oil, water, gas, electricity, fuel
- K4 the construction and working principles of transport and handling equipment, e.g.
  - K4.1 lifting equipment e.g. handlers, cranes, forklifts, loaders, elevating platforms
  - K4.2 latching/hitching systems
  - K4.3 augers, elevators, conveyors
  - K4.4 trailers, tankers, bowsers, feed/mixer/forage wagons self propelled carriers, e.g. mule, golf buggies
  - K4.5 suction and blowers
  - K4.6 timber forwarders, winches, sky lines and cable systems
- K5 the construction and working principles of bulk storage equipment, e.g. crop, fodder, slurry stores/silos, milk tanks, ingestors and related equipment
- K6 the methods of shortening, lengthening and joining elevators and conveyors
- K7 the appropriate methods of removing blockages from transport handling or storage equipment
- K8 how to install and commission new transport, handling and storage equipment

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### 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** 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** Organisational procedures in land-based engineering for guidance related procedural or administrative recording and reporting practices.

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<b>Developed by</b>	LANTRA
<b>Version number</b>	1
<b>Date approved</b>	October 2009
<b>Indicative review date</b>	October 2011
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating organisation</b>	LANTRA
<b>Original URN</b>	LEO20Oct09
<b>Relevant occupations</b>	Agriculture, Horticulture and Animal Care; Science and Engineering Technicians
<b>Suite</b>	Land-based Engineering Operations
<b>Key words</b>	lifting; elevators; carriers; clamps; conveyors