

Service and repair land-based treatment application equipment

Overview

This standard covers the service and repair of land-based treatment application equipment. It includes the underpinning knowledge of the construction and operating principles of implements and machinery

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.

Equipment used for the distribution of materials for the purpose of crop protection and growth such as liquid solid or granular materials are covered in this standard e.g. sprayers, fertilizer distributors, irrigation equipment, or injection equipment.

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

Performance criteria

You must be able to:

1. remove and replace components from land-based **treatment application equipment**
2. dismantle, service/repair and reinstate land-based treatment application equipment and their components to manufacturers' specifications
3. set trailed and mounted equipment to interface with the prime mover
4. calibrate application rates of sprays, liquids and fertilizers
5. implement field settings to manufacturers' specifications on land-based treatment application equipment

Knowledge and understanding

You need to know and understand:

1. the types, construction and function of land-based treatment application equipment used to irrigate, fertilize, spray and spread
2. how to remove and replace components from land-based treatment application equipment
3. how to dismantle, service/repair and reinstate land-based treatment application establishment machinery and equipment to the manufacturer's specification.
4. the methods and mechanisms used to meter application rates of sprays, fertilizer, liquids and solids and their calibration
5. how to set and verify the performance of land-based treatment application equipment to manufacturers' specifications
6. recognise the impact of liquid and solid treatment types, weather conditions and their influence on equipment performance settings

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Glossary

treatment application equipment - e.g. sprayers and spreaders of liquids, granular and solid materials

Links to other NOS

Refer to LANLEO1 Recognise and reduce hazards in the land-based engineering work area, for guidance on safe working practices.

Refer to LANLEO4 Apply core land-based engineering principles: mechanical principles, for guidance related to fundamental engineering principles and practices.

Refer to LANLEO29 Carry out the handover and installation of land-based equipment, for guidance related to operational requirements.

Refer to LANLEO2 Implement organisational procedures in land-based engineering, for guidance related to procedural or administrative recording and reporting practices.

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