
Overview

This standard covers the service and repair of suspension systems on land-based equipment. It includes the suspension systems found on land-based equipment, (e.g. cab, axle or seat suspension) and the maintenance and repair of these systems.

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 **suspension systems** and their related **components** on land-based equipment
2. dismantle service/repair and reinstate **suspension systems** and components to manufacturers' specifications
3. identify and correct **faults** in **suspension systems** and their components

Knowledge and understanding

You need to know and understand:

1. how to remove and replace suspension systems and components on land-based equipment
2. how to dismantle, service/repair and reinstate suspension systems and components to operator's/manufacturer's specifications
3. the types, construction and operating principles of suspension systems and their components
4. how to identify faults in suspension systems and components on land-based equipment

Scope/range

work on at least two of the following **suspension systems**:

1. non independent suspension
2. independent suspension
3. air suspension
4. steel suspension
5. hydraulic suspension

Glossary

components - e.g

- leaf and coil springs
- torsion bar
- air springs
- dampers
- trailing arms
- ball joints
- bump stops
- anti-roll bars
- stabiliser bars
- swinging arms

faults - e.g.

- ride height (unequal and low)
- wear
- noises under operation
- fluid leakage
- excessive travel
- bounce
- poor vehicle handling
- worn dampers
- worn joints
- damaged linkages

LANLEO21

Service and repair suspension systems on land-based equipment



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