
Overview

This standard covers the service and repair of step-less or power-shift transmission systems on land based-equipment. It includes the removal, dismantling, servicing, repairing, reassembly and reinstating of transmission systems and their component parts, the testing, diagnosis and repair practices required for both simple and complex transmissions.

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

Performance criteria

You must be able to:

1. identify and categorise **faults** in step-less or power-shift transmission systems on land-based equipment
2. remove and replace transmission systems and their related components on land-based equipment
3. dismantle, service/repair and reinstate transmission systems to manufacturers' specification and standards where applicable
4. identify the components controlling the sequencing of speed, direction and range

Knowledge and understanding

You need to know and understand:

1. how to remove and replace step-less or power-shift transmission systems and their components on land-based equipment
2. how to dismantle, service/repair and reinstate transmission systems and their components to manufacturers' specification and standards
3. the types, layout, construction and operating principles of transmission systems
4. the methods used to achieve different speed ranges and speeds in transmission systems
5. the necessity of timing epicyclic components correctly
6. the types of safety and protection devices used to protect the integrity of transmission systems
7. how to identify faults in transmission systems

Scope/range

Identify and categorise at least two of the following types of **faults** on the transmissions worked on:

1. mechanical
2. hydraulic
3. electrical/electronic

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Links to other NOS

Refer to LANLEO4 Apply core engineering principles - mechanical principles, for setting bearings and the relationship of gears and pinions to one another and method of lubrication.

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