Overview

This NOS is about conducting routine examination, adjustment and replacement activities as part of the periodic servicing of heavy vehicle trailers.
**Carry out routine commercial motor vehicle trailer maintenance**

**Performance criteria**

**You must be able to:**

P1 use suitable personal protective equipment throughout all vehicle maintenance activities

P2 use suitable **sources of technical and legal information** to support all your maintenance activities

P3 use the correct specifications and tolerances for the trailer when making **assessments** of system and component performance

P4 where the customer's trailer falls outside the manufacturer's original specification, record details accurately and use this adapted specification as the basis for your examination and assessment

P5 examine the trailer systems and components following:
   - P5.1 the manufacturer's approved **examination methods**
   - P5.2 your workplace procedures
   - P5.3 health and safety requirements

P6 ensure your **examination methods** identify accurately any vehicle system and component problems falling outside the servicing schedule specified

P7 carry out adjustments, replacement of trailer components and replenishment of consumable materials following the manufacturer's current specification for:
   - P7.1 the particular service interval
   - P7.2 working methods and procedures
   - P7.3 use of equipment
   - P7.4 the tolerances for the vehicle

P8 where system adjustments cannot be made within the manufacturer's specification, record the details accurately and take action which complies with the customer's instructions

P9 work in a way which minimises the risk of damage to the trailer and its systems

P10 use suitable testing methods to evaluate the performance of all replaced and adjusted components and systems accurately, prior to returning the trailer to the customer

P11 report any problems or issues relating to the trailer's condition or conformity to the relevant person(s) promptly

P12 ensure your maintenance records are accurate, complete and passed to the relevant person(s) promptly in the format required

P13 complete all trailer maintenance activities within the agreed timescale

P14 report any anticipated delays in completion to the relevant persons(s) promptly
Knowledge and understanding

You need to know and understand:

**Legislative and organisational requirements and procedures**

K1 the manufacturer's and legal requirements (including O-License criteria) relating to routine maintenance activities for trailer systems and components

K2 the legal requirements relating to the trailer maintenance and auxiliary equipment (including road safety requirements)

K3 the health and safety legislation and workplace procedures relevant to trailer maintenance activities and personal and trailer protection

K4 your workplace procedures for:
   K4.1 recording trailer maintenance work and any variations from the original specification
   K4.2 the referral of problems
   K4.3 reporting delays to the completion of work

K5 the importance of documenting trailer maintenance information

K6 the importance of working to agreed timescales and keeping others informed of progress

K7 the relationship between time and costs

K8 the importance of reporting anticipated delays to the relevant person(s) promptly

**Use of technical information**

K9 how to find, interpret and use sources of technical information for scheduled maintenance activities, including on-board diagnostic displays

K10 the importance of using the correct sources of technical information

K11 the purpose of and how to use identification codes

**Trailer system operation**

K12 how suspension systems, steering systems, braking systems, non-electrical body systems, hubs, wheels and tyres operate for the type of trailer on which you are working

K13 how lighting systems and ancillary equipment operate for the type of trailer on which you are working

K14 the operating specifications and tolerances for the type(s) of trailers on which you are working

**Routine maintenance requirements**

K15 how to conduct scheduled, routine examination methods and assessments against trailer specifications to identify damage, corrosion, inadequate fluid levels, leaks, wear, security problems and general condition and serviceability

K16 check and make adjustments to clearances, gaps, settings, alignment,
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Carry out routine commercial motor vehicle trailer maintenance

pressures, tension, speeds and levels relevant to the chassis area, electrical area and body (including to valves, brakes, lights, tyres, steering and body fittings)
K17 how to replenish and replace routine service components and materials, including drive, belts, brake linings and pads, filters, lubricants and fluids
K18 how to recognise cosmetic damage to components and units outside normal service items
K19 how to identify codes and grades of lubricants
K20 how to work safely avoiding damage to the trailer and its systems
Additional Information

**Scope/range related to performance criteria**

1. **Sources of technical information** are:
   1.1. trailer technical data
   1.2. schedules of inspection
   1.3. regulations

2. **Examination methods** are:
   2.1. aural
   2.2. visual
   2.3. functional
   2.4. measurements

3. **Assessments** are for:
   3.1. malfunction
   3.2. damage
   3.3. leaks (depending on body type)
   3.4. wear
   3.5. security
   3.6. condition and serviceability
   3.7. conformity
   3.8. necessity for adjustment(s)
**Glossary**

**Agreed timescales:**
Examples include: manufacturer’s recommended work times, job times set by your company or a job time agreed with a specific customer.

**Adjustments:**
Examples include: adjustments to clearances, gaps, settings, alignment pressures, tensions, speeds and levels, and adjustments to valves, brakes, lights, tyres and body fittings.

**Components:**
Examples include: brake linings and pads, lubricants and fluids.

**Conformity:**
Examples include conformity to manufacturer’s specifications, UK and European legal requirements where applicable.

**Systems testing equipment:**
Examples include: test instruments, wheel alignment equipment, tyre tread depth gauges.

**Maintenance records:**
Examples include: records of trailer inspection, manufacturers’, fleet, company or customer job cards.

**Major service:**
As defined by manufacturers’ specifications appropriate to the trailer being working upon.

**Trailer:**
These can be any of the following – Articulated/semi type, Drawbar-centre axle type, Drawbar-steer type.

**Routine trailer maintenance:**
Examples include: conducting scheduled examinations, adjustments, replacements and replenishment of, or to, components and systems in accordance with manufacturer’s instructions for the period and/or mileage interval.

**Trailer technical data:**
Examples include: hard copy manuals, data on computer and data obtained from diagnostic displays.
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