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**Overview**

This standard is about conducting routine examination, adjustment and replacement activities as part of the periodic servicing of heavy vehicle trailers.

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## Performance

### criteria

- You must be able to:
- P1 use suitable personal and vehicle protective equipment throughout all heavy vehicle trailer 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 heavy vehicle 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 heavy vehicle trailer systems and **components** following:
    - P5.1 manufacturer's approved **examination methods**
    - P5.2 your workplace procedures
    - P5.3 health and safety requirements
  - P6 ensure your **examination methods** identify accurately any heavy vehicle trailer system and **component** problems falling outside the servicing schedule specified
  - P7 carry out **adjustments**, replacement of heavy vehicle 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 heavy vehicle trailer to the customer
  - P11 promptly report any problems or issues relating to the heavy vehicle trailer's condition or conformity to the relevant person(s)

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- P12 ensure your maintenance records are accurate, complete and promptly passed to the relevant person(s) in the format required
  - P13 complete all heavy vehicle trailer maintenance activities within the agreed timescale
  - P14 promptly report any anticipated delays in completion to the relevant persons(s)

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## 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 heavy vehicle trailer systems and **components**
- K2 the legal requirements relating to the heavy vehicle trailer maintenance and auxiliary equipment (including road safety requirements)
- K3 the health and safety legislation and workplace procedures relevant to heavy vehicle trailer maintenance activities and personal and trailer protection
- K4 your workplace procedures for:
  - K4.1 recording heavy vehicle 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 heavy vehicle 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 promptly reporting anticipated delays to the relevant person(s)

### 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

### Heavy vehicle trailer system operation

- K12 how suspension systems, steering systems, braking systems, non-electrical body systems, hubs, wheels and tyres operate for the type of heavy vehicle trailer on which you work
- K13 how lighting systems and ancillary equipment operate for the type(s) of heavy vehicle trailer on which you work

- K14 the operating specifications and tolerances for the type(s) of heavy vehicle trailer on which you work

**Routine maintenance requirements**

- K15 how to conduct scheduled, routine **examination methods** and **assessments** against heavy vehicle trailer specifications
- K16 check and make **adjustments** relevant to heavy vehicle trailer chassis area, electrical area and body
- K17 how to replenish and replace routine service **components** and **materials**
- 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

**Scope/range**

1. Sources of **technical information** are:
  - 1.1. heavy vehicle trailer technical data
  - 1.2. schedules of inspection
  - 1.3. regulations
2. **Examination methods** are:
  - 2.1. sensory
  - 2.2. functional
  - 2.3. measurements
  - 2.4. performance
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)
4. **Adjustments** are:
  - 4.1. clearances
  - 4.2. gaps
  - 4.3. settings
  - 4.4. alignment
  - 4.5. pressures
  - 4.6. tension,
  - 4.7. speeds
  - 4.8. levels

**5. Components and materials include:**

- 5.1. ancillary drives
- 5.2. belts
- 5.3. brake linings and pads
- 5.4. filters
- 5.5. lubricants
- 5.6. fluids

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**Additional  
information**

*This section contains examples and explanations of some of the terms used but does not form part of the standard.*

**Glossary**

**Agreed timescales:**

Examples include: manufacturer's recommended work time, job times set by your company or a job time agreed with a specific customer

**Conformity:**

Examples include conformity to manufacturer's specifications, UK and European legal requirements where applicable

**Heavy Vehicle Trailer:**

These include:

DVSA category O3: Trailers over 3,500 kg but not exceeding 10,000kg.

DVSA category O4: Trailers with a DTAW exceeding 10,000kg.

**Maintenance records:**

Examples include: records of trailer inspection, manufacturers', fleet, company or customer job cards

**Routine heavy vehicle 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

**Systems testing equipment:**

Examples include: test instruments, wheel alignment equipment, tyre tread depth gauges



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