
Overview

This standard is about carrying out a range of inspections on light vehicles using a variety of testing methods and equipment.

**Performance
criteria**

- You must be able to:
- P1 use suitable personal and vehicle protective equipment throughout all vehicle inspection activities
 - P2 use suitable sources of technical information to support your vehicle inspection activities
 - P3 prepare the vehicle systems and work area for safe working procedures (where appropriate)
 - P4 confirm that **equipment** has been calibrated to meet manufacturers' and legal and statutory requirements where necessary
 - P5 conduct all **vehicle inspections** and **testing** following:
 - P5.1 the manufacturer's approved examination methods
 - P5.2 recognised methods
 - P5.3 your workplace procedures
 - P5.4 health, safety and environmental requirements
 - P6 ensure your **inspection** and **testing** of the vehicle against specification accurately identifies:
 - P6.1 differences from the vehicle specification
 - P6.2 vehicle appearance and condition faults
 - P6.3 non-compliance with legal and statutory requirements
 - P7 work in a way which minimises the risk of damage to the vehicle and its systems, other people and their property and your working environment
 - P8 make suitable recommendations for future action based upon the results of your **tests** and **inspections**
 - P9 explain the reasons for your recommendations to the relevant person(s)
 - P10 offer alternative options from your recommendations if the customer does not agree to your plan for future action
 - P11 ensure your report is accurate, complete and passed to the relevant person(s) within the agreed timescale and in the format required
 - P12 complete all inspection activities within the agreed timescale
 - P13 promptly report any anticipated delays in completion to the relevant person(s)

Knowledge and understanding

You need to know and understand:

Legislative and organisational requirements and procedures

- K1 the legislation and workplace procedures relevant to
 - K1.1 health and safety
 - K1.2 the environment (including waste disposal)
 - K1.3 appropriate personal and vehicle protective equipment
- K2 the legislation and statutory requirements relevant to the **vehicle inspections** for: pre-purchase, pre-MOT test, safety, post-accident (pre-repair) and post-accident (post-repair)
- K3 your workplace procedures for the referral of problems:
- K4 the importance of making accurate reports of the results of your **tests** and **inspections** and interpreting them correctly
- K5 the importance of working to agreed timescales and keeping others informed of progress
- K6 the relationship between time, costs and productivity
- K7 the importance of promptly reporting anticipated delays to the relevant person(s)

Sources of information

- K8 how to find, interpret and use technical information
- K9 the importance of using technical information to inform your **inspection** and **testing** of vehicles

Testing methods and the conduct of inspections

- K10 the hazards associated with working on or near high energy electrical vehicle components
- K11 how vehicle systems operate (including the engine area, transmission area, chassis or frame area and electrical area) and the operational tolerances for vehicle(s) on which you are working
- K12 how to follow procedures and processes to enable a logical and systematic inspection of vehicles to take place
- K13 how to **test** the operation and tolerances of vehicle systems and how to assess vehicle condition; including workshop based and road **tests**

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- K14 how to compare **test** and **inspection** results against vehicle specifications and legal requirements
 - K15 how to record **test** and **inspection** results in the format required
 - K16 how to make recommendations based upon the results of your **inspections**
 - K17 the full implications of failing to carry out an **inspection** correctly
 - K18 the implications of signing workplace documentation and vehicle records

Scope/range

- 1. Vehicle inspections are:**
 - 1.1. pre-purchase
 - 1.2. pre-MOT test
 - 1.3. safety
 - 1.4. post-accident, pre-repair
 - 1.5. post accident, post-repair

- 2. Test methods are:**
 - 2.1. sensory
 - 2.2. functional
 - 2.3. measurement

- 3. Equipment includes:**
 - 3.1. emissions testing
 - 3.2. brake testing
 - 3.3. headlamp alignment
 - 3.4. wheel alignment
 - 3.5. torque setting
 - 3.6. specialist diagnostic equipment
 - 3.7. measuring equipment

**Additional
Information****Glossary**

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

Agreed timescales

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

Alternative fuel

This is defined as any type of fuel that may be used to power an internal combustion engine, examples would include LPG, bio ethanol etc.

Sources of technical information

Examples include inspection schedules, MOT inspection manuals and guides, manufacturers' manuals, Trade Association check lists and workplace procedures.

Vehicles

These can be any of the following types of light vehicle: SI, CI, Hybrid, Electric or Alternative fuel vehicles.

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