
Overview

This standard is about the routine removal and fitting of basic mechanical, electrical and trim (MET) components to large commercial and passenger vehicles. It is also about checking the operation of the components fitted.

Performance criteria

- P1. use the appropriate personal protective equipment when removing and fitting **basic MET components**
- P2. protect the vehicle and its contents effectively when removing and fitting **basic MET components**
- P3. select and use the correct tools and equipment for the components you are going to remove or fit
- P4. ensure that the tools and equipment you require are in a safe working condition
- P5. remove and fit basic MET components following:
 - P5.1. removal and fitting procedures
 - P5.2. manufacturers' instructions
 - P5.3. your workplace procedures
 - P5.4. health, safety, environmental and legal requirements
- P6. work in a way which minimises the risk of:
 - P6.1. damage to other vehicle systems, units and components
 - P6.2. contact with leakage and hazardous substances
 - P6.3. damage to your working environment
 - P6.4. injury to self and others
- P7. store all removed components safely in the correct location
- P8. check that the components you have fitted operate correctly following the manufacturer's specification
- P9. report any additional faults you find during the course of your work to the relevant person(s) promptly
- P10. ensure your records are accurate, complete and passed to the relevant person(s) within the agreed timescale and in the format required
- P11. complete all activities within the agreed timescale
- P12. report any anticipated delays in completion to the relevant person(s) promptly

Knowledge and understanding

Legislative and organisational requirements and procedures

- K1. the legal requirements relating to the vehicle (including road safety requirements)
- K2. the implications on an Operator's Licence of not carrying out repairs and inspections correctly
- K3. the legislation and workplace procedures relevant to:
 - K3.1. health and safety
 - K3.2. the environment (including waste disposal)
 - K3.3. appropriate personal and vehicle protective equipment
- K4. your workplace procedures for:
 - K4.1. recording remove/replace information
 - K4.2. the referral of problems
 - K4.3. reporting delays to the completion of work
- K5. the work that needs to be done and the standard required
- K6. the importance of documenting remove/replace information
- K7. the importance of working to agreed timescales and keeping others informed of progress
- K8. the relationship between time and costs
- K9. the importance of reporting anticipated delays to the relevant person(s) promptly
- K10. the hazards associated with working on or near high voltage electrical vehicle components

Use of technical information

- K11. how to find, interpret and use sources of information applicable to the removal and fitting of basic MET components
- K12. the importance of using the correct sources of technical information

Tools and equipment

- K13. how to select, check and use all the tools and equipment required to remove and fit basic MET components

Removing and fitting basic MET components

- K14. the procedures for removing and fitting **basic MET components**
- K15. the methods of storing removed parts and the importance of storing them correctly
- K16. the different types of fastenings and the reasons for their use
- K17. the need for correct alignment of components and the methods used to achieve this

- K18. the types of quality checks that can be used to ensure correct alignment and operation of components to manufacturer's specification and their purpose

Scope/range

1. **Basic MET components** are:
 - 1.1. lighting units
 - 1.2. batteries
 - 1.3. interior trim components
 - 1.4. exterior trim components
 - 1.5. radiators
 - 1.6. intercoolers
 - 1.7. fans

2. **Tools and equipment** are:
 - 2.1. hand tools
 - 2.2. manufacturer's specified and specialist tools
 - 2.3. workshop equipment

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.

Large Commercial and Passenger Vehicles:

These are medium and large goods vehicles, buses and coaches of 3500kgs gross vehicle mass (GVM) and above.

IMICB01

Remove and fit basic large commercial and passenger vehicle Mechanical, Electrical and Trim (MET) components



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Suite Coachbuilding

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