

Assessment Requirements

Unit BP01K – Knowledge of Removing and Fitting Motor Mechanical, Electrical and Trim (MET) Components to Vehicles

Content:

Procedures to prevent damage to the vehicle, components and contents when removing, storing and refitting MET components

- a. The methods that can be used to protect undamaged items to ensure they are removed and refitted without causing unnecessary damage:
 - i. bumpers
 - ii. headlamp units
 - iii. road wheels
 - iv. batteries
 - v. bonnet fittings
 - vi. interior trim components
 - vii. exterior trim components
- b. The procedures for the correct storage of vehicle contents.
- c. The process for the reporting of extra damage and items that may have broken when removed or refitted.

The processes involved when handling batteries

- a. The procedure for the removal, storage and refitting of lead acid batteries.
- b. The procedure for the disposal of lead acid batteries.
- c. Battery checks:
 - i. electrolyte
 - ii. discharge
 - iii. specific gravity
- d. The charging process and procedures:
 - i. trickle charge
 - ii. normal charge
 - iii. boost / start
- e. The health and safety issues involved when charging (explosive gasses).

Types of clips and fixings

- a. The following types of clips and identify reasons and limitations for their use:
 - i. speed
 - ii. 'c'
 - iii. 'd'
 - iv. 'j' type captive nut
 - v. 'r'
 - vi. 'u' type captive nut
 - vii. cable clip
 - viii. trim clips
- b. The following types of fixings and identify reasons and limitations for their use:
 - i. rivets
 - ii. plastic capture nut
 - iii. nut and bolt
 - iv. shoulder bolt
 - v. 'Nyloc' type nuts
 - vi. washers

- vii. 'Spring' type washers
- viii. self tapping screws and bolts
- ix. quick release plastic trim fastenings
- x. trim tapes
- xi. adhesives and sealers

The processes involved when carrying out quality checks

- a. Items that may have been 'workshop' soiled and describe processes for rectifying:
 - i. door cards
 - ii. seats
 - iii. carpets
 - iv. boot and bonnet trims
- b. Methods for checking gaps.
- c. The process for checking and aligning headlamps:
 - i. address handling procedures for halogen bulbs
 - ii. address handling and health and safety issues relating to xenon bulbs and systems
- d. Operational checks and rectification methods to include:
 - i. lights
 - ii. washers and wipers
 - iii. SRS systems (checking not rectification)
 - iv. charging system (checking not rectification)
 - v. horn
 - vi. fluid levels
 - vii. interior switches
 - viii. operation of door lock mechanisms