

Assessment Requirements

Unit BP06K – Knowledge of Minor Motor Vehicle Exterior Body Panel Repairs

Content:

Selection and use of tools

The principles governing the selection and use of hand tools for metal finishing and plastic filler repairs.

Include:

- a.
 - i. panel beating hammers
 - ii. dolly blocks
 - iii. beating files
 - iv. body spoons
 - v. dual action sanders
- b. How to select the correct tools to carry out reshaping work, including specialist dent removal tools including:
 - i. panel pullers
- c. How to prepare, test and use and maintain the hand and power tools required to prepare damage and reshape damaged areas.

Selection and use of materials

- a. How to mix and apply plastic fillers.
- b. The properties and use of metals used to manufacture body panels.
- c. The properties and safe use of types of filling materials used to repair panels including:
 - i. plastic fillers
- d. The different types and grades of abrasive and their use.

The techniques to identify the type of plastics used for manufactured components

Repairing body panels

- a. How to interpret and use sources of information relevant to the removal of body components.
- b. How to prepare damaged areas to facilitate repairs.
- c. How to repair plastic components using thermal and adhesive techniques
- d. How to rough out and metal finish body panels.
- e. How to reshape filling materials to match the original panel contour.
- f. How to finish repairs to a suitable condition for handing on to the painting stage.
- g. How to work safely avoiding damage to the vehicle and its systems.
- h. The techniques for reshaping damaged body panels using hand and specialist tools.
- i. The procedures for reinstating anti-corrosion, sealant and sound deadening materials.
- j. The procedures for repairing damage to plastic components.
- k. The techniques and processes for:
 - i. plastic repairs
 - ii. hot shrinking
 - iii. panel pulling
 - iv. metal finishing
 - v. plastic filling

- vi. indirect hammering
- vii. direct hammering
- l. The techniques used to regain the contours of repaired plastic components.
- m. Methods of checking reshaped panel contours for accuracy.
- n. Standards of finish require to enable the next stage of repairs to proceed.
- o. The manufacturer's approved methods of working for the preparation and repair of body panels