

Task 2c – Perform maintenance and repair activities on vehicle 2

You must:

- i. prepare the work area for the maintenance and repair activities on vehicle 2
- ii. perform the maintenance and repair activities on vehicle 2 in accordance with the planning documents produced in task 1. This should include:
 - decommissioning and inspection of the vehicle systems
 - disassemble and reassemble the relevant system/s
 - diagnosing and recording faults within the systems, including carrying out appropriate tests and measurements
 - safe isolation of the high voltage system
 - repairing faults and replacing components as required
 - safely using the appropriate tools and equipment
 - re-energising the high voltage system and recommissioning the vehicle
 - demonstration of vehicle functionality to the manager
 - re-instating the work area
- iii. record the maintenance and repair activities, to include:
 - completed job card and any control documents
 - record of measurements and tests completed.

Conditions of assessment:

- the time allocated for this task is **5 hours**
- you must carry out the task on your own, under **controlled conditions** while being observed
- you will be given copies of your completed documentation from Task 1
- you will be given access to the internet for fault diagnostic analysers and researching fault codes.

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage which cannot be accessed
- all practical work areas and any evidenced produced must be kept secure and only accessible by the assessor
- you must not share or discuss your work with other candidates
- you are not permitted to bring any materials into the assessment session.

What must be produced for marking:

- completed job card for vehicle 2 and any control documents
- record of measurements and tests completed
- internet search history for fault diagnostics and fault codes.

Additional evidence for this task:

- assessor observations of the work area preparation
- assessor observations of the maintenance and repair activities for vehicle 2
- assessor observation of vehicle functionality demonstration.

To support the comments made within the Practical Observation form the following photographs must be submitted for each candidate.

Photographic evidence which shows:

- prepared work area to complete maintenance and repair to vehicle 2
- prepared and fitted VPE
- the working area after disassembly of the appropriate vehicle system/s
- re-instated work area.

Resources:

- copies of completed documentation from Task 1
- access to relevant information sources (digital or hard copy) for vehicle 2
- working area
- internet access for: fault diagnostic analysers and fault codes
- PPE, VPE and appropriate signage
- access to vehicle 2 which meets the requirements of the brief
- replacement parts, materials and consumables
- appropriate tools and equipment
- measurement, fault diagnosis and test equipment
- appropriate ICT equipment and software, including manufacturer specific diagnostic testers
- access to a rolling road to demonstrate vehicle functionality.

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