Task 2 – Perform the maintenance activities

You must:

a) prepare the work area for the maintenance activities

b) perform the maintenance activities in accordance with the method statement and planning documents produced in Task 1. This should include:
- decommissioning and inspection of the system
- disassembly and reassembly of the system
- diagnosing and recording faults within the system, including carrying out appropriate tests
- repairing the faults and replacing components as required
- safely using the appropriate tools and equipment
- recommissioning of the system
- re-instating the work area

c) record the maintenance activities, to include:
- calibration results
- completed test record sheets
- updated maintenance records and control documents
- annotated method statement, including any recommendations for further investigation if required.

Conditions of assessment:

- the time allocated for this task is **11 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.

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 evidence 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 you must produce for marking:

- calibration results
- completed test record sheets
- updated maintenance records and control documents
- annotated method statement, including any recommendations for further investigation if required.

Additional evidence that must be captured for marking:

- assessor observations of the work area preparation
- assessor observations of the maintenance activities.

To support the comments made within the Practical Observation the assessor must capture the following photographs that must be submitted as supporting evidence for each candidate.

Photographic evidence which shows:

- the prepared work area
- the working area after disassembly
- test set up
- top of the thermocouple to show the wiring of the replaced transmitter, including connections
- the re-instated work area.

Resources:

- copies of completed planning documentation from Task 1
- access to relevant information sources (digital or hard copy), including Figures 1 and 2
- an appropriate temperature control system and electrical supply to suit the needs of the system
- working area
- appropriate PPE
- a range of materials and consumables
- a range of relevant tools and equipment for maintenance and repair
- a range of appropriate measurement, fault diagnosis, test and calibration equipment
- appropriate components to replace faulty items
- appropriate ICT equipment and software.

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