

Task 2 – Production

You must:

- a) prepare the work area
- b) produce and assemble the drill jig assembly using both hand tools and workshop machinery
- c) reinstate the work area following the production of the drill jig assembly.

Conditions of assessment:

- the time allocated for this task is **18 hours**
- you must carry out the task on your own, under **controlled conditions** while being observed.

Controlled conditions:

- you must only work on the 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 must be produced for marking:

- functioning drill jig assembly.

Additional evidence for this task:

- assessor observation to include:
 - preparation of tools and equipment
 - application of hand skills
 - set up and use of workshop machinery
 - checks carried out before, during and after production
 - work area prior to, during and on completion of tasks.

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

Photographic evidence which shows:

- sequence of photographs during the construction of the drill jig to include:
 - work area, prior to, during and on completion of production activities
 - stages of production of the drill jig components (including setting up, marking out of materials, removal of material using equipment, finishing and assembly)

- completed drill jig assembly.

Resources:

- access to a range of hand tools
- access to a pillar drill
- marking out tools
- measurement and inspection tools (with calibration certificate) (e.g. callipers, go-no-go gauges, DTI clock gauge, rules, tape)
- suitable surface treatment: degreaser, lubricant, rust protection spray
- appropriate Personal Protective Equipment (PPE) (as per resources list)
- COSHH data sheets
- access to the required production drawings
- commissioning checklist template
- copies of completed documentation from Task 1.

Materials:

- low carbon mild steel plate
- steel dowels
- pre-manufactured bolts.

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