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| <p>Qualification 2660 Level 3 Diploma in Engineering Construction</p> <p>Unit 311 Interpret information and mark out pipework materials 312 Preparation, fabrication and joining of pipework assemblies</p> | <p>Assessment title Produce a pipework assembly</p> <p>Version A <i>(if applicable)</i></p> |
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| <p>Candidate Name</p> | <p>Candidate number</p> |
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Task
Produce the Pipework Assembly following the given drawing to match your method statement and cutting list prepared in task 1.

You must ensure that you maintain your work area throughout the tasks.

You will need to:

1. Prepare a risk assessment
2. Mark out as per your method statement.
3. Cut and prep joints required using the tools supplied and methods stated.
4. Carry out assembly of the spool using selected tools and tacking methods.
5. Carry out checking of the assembly.

Record evidence of:

- Performance that supports the candidate as meeting assessment and grading criteria.
- Poor performance and any corrective action taken by the candidate.
- Discussion with candidates regarding
 - how to obtain information
 - the characteristics and benefits of using drawings, specifications and data
 - choice and use of materials and their properties
 - choice of treatments and techniques used e.g. types of welding
 - impact of hot and cold working
 - the reasons for machining critical components prior to assembly
 - benefits and limitations of pipe bending over the use of pipe fittings
 - how the size and type of pipe relates to the span between supports
 - the effects of potential hazards e.g. noise and fumes produced by plasma cutting, removal of coatings
 - the reasons for and advantages of using templates, materials used for template making and the factors influencing selection and processing allowances
 - types of surface protection and insulation
 - differences between arc plasma cutting process and oxy fuel cutting process during the shaping of pipework sections
 - causes of distortion and how to decide if defects are critical and if they can be reworked
 - the actions to take if any components shortages are identified

* This observation record form may be replaced by any more detailed task specific form that better supports evidence recording during observation in the particular context.
Attach to the task 2 answer booklet.

| Assessor Observation Notes* | Assessor Initial |
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