

SkillPlumb Pre Competition Activity 2019



Introduction

The purpose of this task is so that colleges / training providers can either have an in workshop activity as a group or as a group of colleges / training providers can identify potential competitors for Regional competitions.

The task is aimed at any learner on a level 2 programme that has undertaken the basic skills assessments in their qualification. So that means they can bend pipe, solder and work to dimensions. The task will also need to be tested.

The Task

The competition is meant to be challenging and testing your basic skills.

We ask that you think about the task and carefully plan and complete the work to as high standard as possible.

It is not a race there are no prizes for finishing first.

In the information sent out was a detailed tool list and risk assessment for the task have you all read and understood this.

We ask that during competition time you keep yourself hydrated water is supplied.

You behave in a professional manner.

The task is to produce the installation as drawn in 4 hours, this time is to include a test at 1bar for 2 minutes. All pipes are spaced off the wall using pipe clip spacers to avoid the need to offset into the pump. The task will fit on a 1220mm x 1220mm board.

The joints are to be assessed using the training to succeed manual and for joint quality using the criterion laid down starting at '0' and working your way up to a '3'. If you have a couple of judges it is best to have a standardisation process before you begin so all are aware of the criterion. There should be no talking whilst looking at the joint and when asked to declare each judge must present their mark and these must be within '1' of all marks submitted. If greater than '1' then a discussion can be had to justify the biggest difference etc. then all to mark again.

No cleaning with abrasive or cleaning fluids after soldering or wiping of molten solder with clothe or brush. Joints should only be washed off with a damp/wet cloth to remove flux.

All bend angles must be within 1 degree of the specified angle to get the mark.

Plumb and Level – bubble must be within the lines on the level.

There is to be no mobile phones in the competition area and no photos taken by competitors during competition time.

At all times safety glasses are to be worn properly – no looking over the top etc.

If you have an accident, please see a Judge for access to first aid.

Competitors are to only leave the competition area at break times if they wish to leave at any other time they must talk to a judge.

There is to be no pre-drawn templates or drawings brought into the competition area. Has anyone brought any as checks will be made, and this could lead to disqualification.

The work area is to be kept clean and tidy at all times - no pipe ends to be left on floor etc. There will be 1 warning about safe work area and after that marks will be lost.

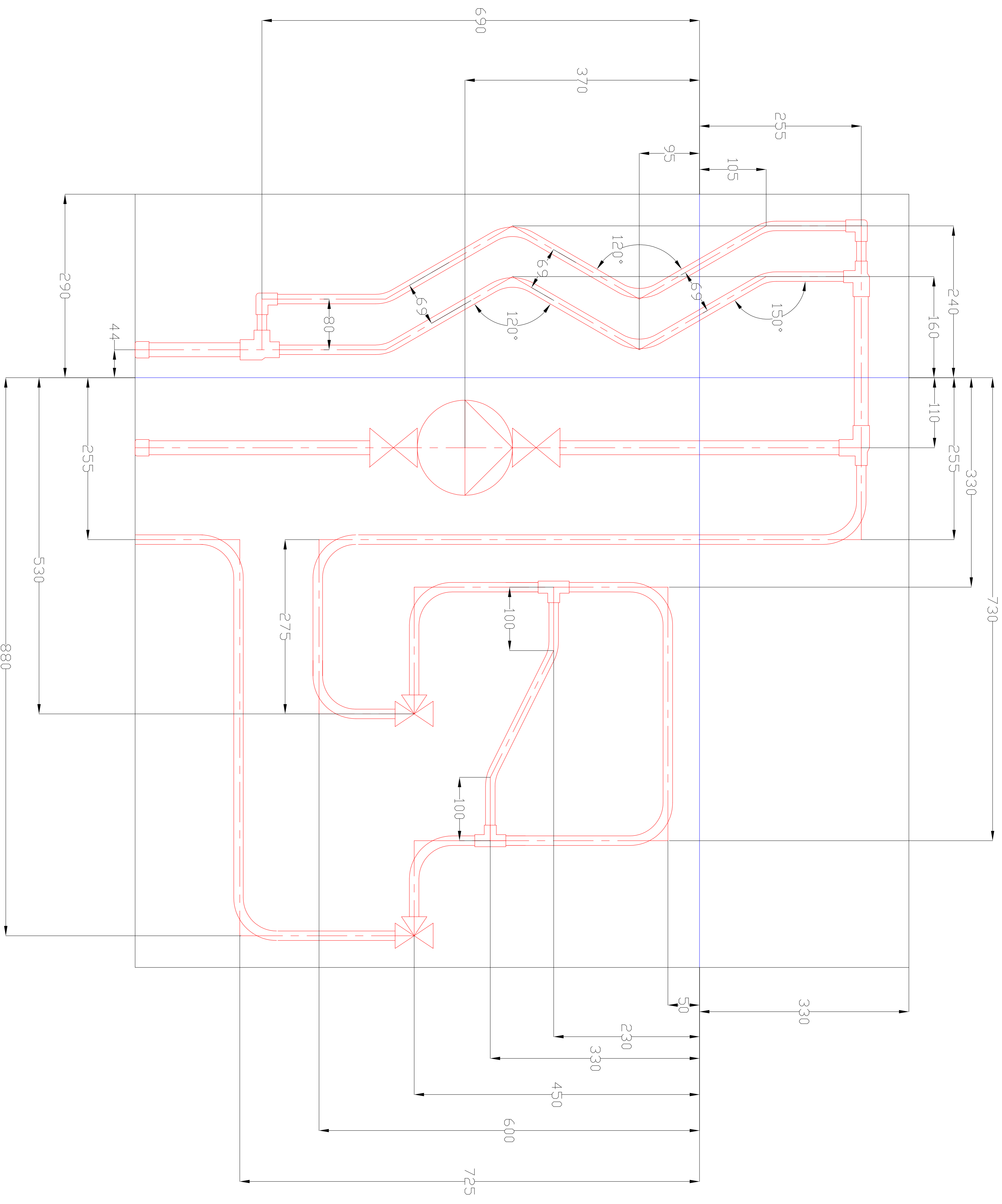
Have a fun day and we wish you Luck

If you wish to discuss the project, please call

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BPEC Competitions

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Plumbing and Heating

	Criteria	Mark
A	Dimension	40.00
B	Task Layout & Soundness	8.00
C	Joint Quality	12.00
D	Bends & Angles	8.00
E	Plumb & Level	6.00
F	Health & Safety	10.00
G	Material Usage & overall presentation	16.00



Sub Criteria ID	Aspect Type O = Objective J = Judgment	Aspect – Description Dimensions	Desired Result	Extra Aspect Description (objective) OR Judgement Score Description (Judgment)	Actual Result	Max Mark	Act Score
A1	O	Dimension 1	50	Dimension +/- 2 mm incl. = full marks		2	
A2	O	Dimension 2	230	Dimension +/- 2 mm incl. = full marks		2	
A3	O	Dimension 3	330	Dimension +/- 2 mm incl. = full marks		2	

A4	O	Dimension 4	450	Dimension +/- 2 mm incl. = full marks		2	
A5	O	Dimension 5	600	Dimension +/- 2 mm incl. = full marks		2	
A6	O	Dimension 6	725	Dimension +/- 2 mm incl. = full marks		2	
A7	O	Dimension 7	730	Dimension +/- 2 mm incl. = full marks		2	
A8	O	Dimension 8	330	Dimension +/- 2 mm incl. = full marks		2	
A9	O	Dimension 9	255	Dimension +/- 2 mm incl. = full marks		2	
A10	O	Dimension 10	110	Dimension +/- 2 mm incl. = full marks		2	
A11	O	Dimension 11	160	Dimension +/- 2 mm incl. = full marks		2	
A12	O	Dimension 12	240	Dimension +/- 2 mm incl. = full marks		2	
A13	O	Dimension 13	69	Dimension +/- 2 mm incl. = full marks		2	
A14	O	Dimension 14	69	Dimension +/- 2 mm incl. = full marks		2	
A15	O	Dimension 15	69	Dimension +/- 2 mm incl. = full marks		2	

A16	O	Dimension 16	80	Dimension +/- 2 mm incl. = full marks		2	
A17	O	Dimension 17	690	Dimension +/- 2 mm incl. = full marks		2	
A18	O	Dimension 18	44	Dimension +/- 2 mm incl. = full marks		2	
A19	O	Dimension 19	255	Dimension +/- 2 mm incl. = full marks		2	
A20	O	Dimension 20	880	Dimension +/- 2 mm incl. = full marks		2	
Sub Criteria ID	Aspect Type O = Objective J = Judgment	Aspect – Description Task Layout & Soundness	Desired Result	Extra Aspect Description (objective) OR Judgement Score Description (Judgment)	Actual Result	Max Mark	Act Score
B1	O	Task Completion	Yes / No	Task completed as per drawings & completed within time period specified		4	0
B2	O	Soundness Test	Pass / Fail	Test to 1 bar for 2 mins		4	0
Sub Criteria ID	Aspect Type O = Objective J = Judgment	Aspect – Description Joint Quality	Desired Result	Extra Aspect Description (objective) OR Judgement Score Description (Judgment)	Actual Result	Max Mark	Act Score

C1	J	Soldering joint 1	0 0.66 1.33 2	See training to succeed for judgement photos and descriptors 0 = 0, 1=0.66, 2= 1.33, 3=2		2	
C2	J	Soldering joint 2	0 0.66 1.33 2	See training to succeed for judgement photos and descriptors 0 = 0, 1=0.66, 2= 1.33, 3=2		2	
C3	J	Soldering joint 3	0 0.66 1.33 2	See training to succeed for judgement photos and descriptors 0 = 0, 1=0.66, 2= 1.33, 3=2		2	
C4	J	Soldering joint 4	0 0.66 1.33 2	See training to succeed for judgement photos and descriptors 0 = 0, 1=0.66, 2= 1.33, 3=2		2	
C5	J	Soldering joint 5	0 0.66 1.33 2	See training to succeed for judgement photos and descriptors 0 = 0, 1=0.66, 2= 1.33, 3=2		2	

C6	J	Soldering joint 6	0 0.66 1.33 2	See training to succeed for judgement photos and descriptors 0 = 0, 1=0.66, 2= 1.33, 3=2		2	
SubCriteriaID	Aspect Type O = Objective J = Judgment	Aspect – Description Bends & Angles	Desired Result	Extra Aspect Description (objective) OR Judgement Score Description (Judgment)	Actual Result	Max Mark	Act Score
D1	O	Bends & Angles 1	90	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D2	O	Bends & Angles 2	90	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D3	O	Bends & Angles 3	90	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D4	O	Bends & Angles 4	90	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D5	O	Bends & Angles 5	120	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D6	O	Bends & Angles 6	120	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D7	O	Bends & Angles 7	150	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	

D8	O	Bends & Angles 8	150	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
Sub Criteria ID	Aspect Type O = Objective J = Judgment	Aspect – Description Plumb & Level	Desired Result	Extra Aspect Description (objective) OR Judgement Score Description (Judgment)	Actual Result	Max Mark	Act Score
E1	O	Plumb & Level 1: will be selected at random from a draw prior to starting assessment for that criterion. Hot, Cold, Heating, Gas: Is the plumb, level or gradient as requested?	yes/no	Between lines on bubble gauge		1	
E2	O	Plumb & Level 2: will be selected at random from a draw prior to starting assessment for that criterion. Hot, Cold, Heating, Gas: Is the plumb, level or gradient as requested?	yes/no	Between lines on bubble gauge		1	
E3	O	Plumb & Level 3: will be selected at random from a draw prior to starting assessment for that criterion. Hot, Cold, Heating, Gas: Is the plumb, level or gradient as requested?	yes/no	Between lines on bubble gauge		1	
E4	O	Plumb & Level 4: will be selected at random from a draw prior to starting assessment for that criterion. Hot,	yes/no	Between lines on bubble gauge		1	

		Cold, Heating, Gas: Is the plumb, level or gradient as requested?					
E5	O	Plumb & Level 5: will be selected at random from a draw prior to starting assessment for that criterion. Hot, Cold, Heating, Gas: Is the plumb, level or gradient as requested?	yes/no	Between lines on bubble gauge		1	
E6	O	Plumb & Level 6: will be selected at random from a draw prior to starting assessment for that criterion. Hot, Cold, Heating, Gas: Is the plumb, level or gradient as requested?	yes/no	Between lines on bubble gauge		1	
SubCriteriaID	Aspect Type O = Objective J = Judgment	Aspect – Description Health & Safety	Desired Result	Extra Aspect Description (objective) OR Judgement Score Description (Judgment)	Actual Result	Max Mark	Act Score
F1	O	Clean and tidy work area no warnings	yes/no			5	0
F2	O	Wearing PPE as required no warnings	yes/no			5	0
Sub Criteria ID	Aspect Type O = Objective J = Judgment	Aspect – Description Material Usage & overall presentation	Desired Result	Extra Aspect Description (objective) OR Judgement Score Description (Judgment)	Actual Result	Max Mark	Act Score

G1	O	No extra pipe required and task complete as per drawing (Max 1x 1m piece allowed, either size of copper pipework – 4 point deducted for 1m length requested)	Yes/ No			4	
G2	O	No couplings required and task complete as per drawing (each coupling deduct 4 marks - Max of two sockets requested any size permitted)	Yes/ No			8	
G3	O	No marks (burns or extra fixing holes) to walls adjacent to joint	Yes/ No			4	
Total							