

SkillPlumb Pre Competition Activity 2020



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.

On the BPEC website in the charity section you will find a document called Training to succeed that explains the standards.

No impact drivers are to be used. However, you can use an ordinary battery driver.

We ask that during competition time you keep yourself hydrated.

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 cloth 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 fully within the lines on the level. (0.5⁰ degree if using digital 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

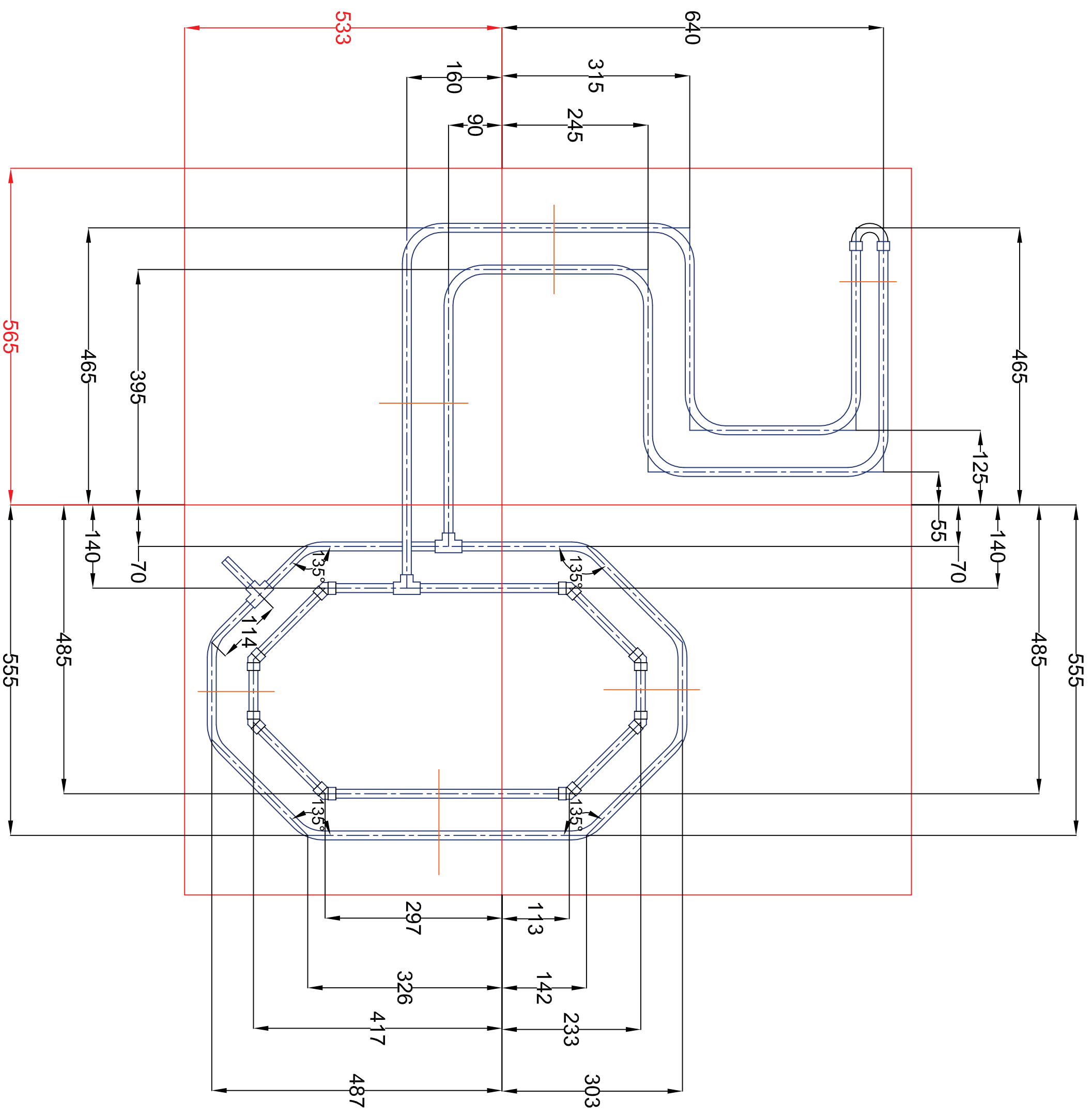
If you wish to discuss the project, please call

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BPEC Competitions

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Skill name		
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

YELLOW BOXES REQUIRE A RESPONSE

Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score	Extra Aspect Description (Obj or Sub) OR Judgement Score Description (Judg only)	Requirement or Nominal Size (Obj Only)	Max Mark	Act
Criterion A								
A	Dimension							
A1		O	Dimension 1	55	Dimension + 2 mm incl. = full marks		2	
A2		O	Dimension 2	125	Dimension + 2 mm incl. = full marks		2	
A3		O	Dimension 3	465	Dimension + 2 mm incl. = full marks		2	
A4		O	Dimension 4	465	Dimension + 2 mm incl. = full marks		2	
A5		O	Dimension 5	395	Dimension + 2 mm incl. = full marks		2	
A6		O	Dimension 6	640	Dimension + 2 mm incl. = full marks		2	
A7		O	Dimension 7	315	Dimension + 2 mm incl. = full marks		2	
A8		O	Dimension 8	245	Dimension + 2 mm incl. = full marks		2	
A9		O	Dimension 9	90	Dimension + 2 mm incl. = full marks		2	
A10		O	Dimension 10	160	Dimension + 2 mm incl. = full marks		2	
A11		O	Dimension 11	70	Dimension + 2 mm incl. = full marks		2	
A12		O	Dimension 12	240	Dimension + 2 mm incl. = full marks		2	
A13		O	Dimension 13	140	Dimension + 2 mm incl. = full marks		2	
A14		O	Dimension 14	485	Dimension + 2 mm incl. = full marks		2	
A15		O	Dimension 15	555	Dimension + 2 mm incl. = full marks		2	
A16		O	Dimension 16	303	Dimension + 2 mm incl. = full marks		2	
A17		O	Dimension 17	233	Dimension + 2 mm incl. = full marks		2	
A18		O	Dimension 18	417	Dimension + 2 mm incl. = full marks		2	
A19		O	Dimension 19	487	Dimension + 2 mm incl. = full marks		2	
A20		O	Dimension 20	149	Dimension + 2 mm incl. = full marks		2	
Criterion B								
Task Layout & Soundness								
B1		O	Task Completion	Yes / No	Task completed as per drawings & completed within time period specified		4	
B2		O	Soundness Test	Pass / Fail	Test to 1 bar for 2 mins		4	
Criterion B								
Joint Quality								
C1		J	Soldering joint 1	0 1 2 3	"not competent" "meeting the industry standard" "better than meeting the industry standard" "excellent/outstanding"		2	
C2		J	Soldering joint 2	0 1 2 3	"not competent" "meeting the industry standard" "better than meeting the industry standard" "excellent/outstanding"		2	
C3		J	Soldering joint 3	0 1 2 3	"not competent" "meeting the industry standard" "better than meeting the industry standard" "excellent/outstanding"		2	
C4		J	Soldering joint 4	0 1 2 3	"not competent" "meeting the industry standard" "better than meeting the industry standard" "excellent/outstanding"		2	
C5		J	Soldering joint 5	0 1 2 3	"not competent" "meeting the industry standard" "better than meeting the industry standard" "excellent/outstanding"		2	
C6		J	Soldering joint 6	0 1 2 3	"not competent" "meeting the industry standard" "better than meeting the industry standard" "excellent/outstanding"		2	
Criterion A								
Bends & Angles								
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	135	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D6		O	Bends & Angles 6	135	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D7		O	Bends & Angles 7	135	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
D8		O	Bends & Angles 8	135	Angle 0° up to 1° = full marks / Angle above 1° = 0 Marks		1	
Criterion C								
Plumb & Level								
E1		O	Plumb & Level 1: will be selected at random	yes/no	Between lines on bubble gauge		1	
E2		O	Plumb & Level 2: will be selected at random	yes/no	Between lines on bubble gauge		1	
E3		O	Plumb & Level 3: will be selected at random	yes/no	Between lines on bubble gauge		1	
E4		O	Plumb & Level 4: will be selected at random	yes/no	Between lines on bubble gauge		1	
E5		O	Plumb & Level 5: will be selected at random	yes/no	Between lines on bubble gauge		1	
E6		O	Plumb & Level 6: will be selected at random	yes/no	Between lines on bubble gauge		1	
Criterion D								
Health & Safety								
F1		O	Clean and tidy work area no warnings	yes/no			5	
F2		O	Wearing PPE as required no warnings	yes/no			5	
Criterion E								
Material Usage & overall presentation								
G1		O	No extra pipe required and task complete as per drawing (Max 1x 1m piece allowed, either size of copper pipework – 4 joint 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 firing holes) to walls adjacent to joint	Yes/ No			4	

Criterion A Total Mark 40 0

Criterion B Total Mark 8 0

Criterion B Total Mark 12.00 0.00

Criterion A Total Mark 8 0

Criterion C Total Mark 6 0

Criterion D Total Mark 10 0

Criterion E Total Mark 16 0

Competition Total Mark 100.00 0.00

Summary	Weighting	Max Mark Available	Mark Awarded
Task layout and pipework soundness	1	8	0.00
Dimensions	2	40	0.00
Joint Quality	3	12	0.00
Bend Angles	4	8	0.00
Plumb & Level	5	6	0.00
Material Usage & overall presentation	6	16	0.00
Health & Safety	7	10	0.00
Cumulative Result	0	100	0.00