

PRACTICAL TEST MARK SHEET FOR
FABRICATION PROCESSES (SHEET METAL)



FRUSTRUM OF A CONE

Level 3 Award, Certificate and Diploma in Fabrication and Welding Practice

Unit 7: Fabrication Processes (Sheet Metal)

Learner Name:

Centre Name:

Time Allowed = 12 hours

To be completed by the learner, by hand:

1	Parent Material Type and/or Specification	
2	Parent Material Thickness	
3	Cutting Process(es)	
4	Forming Process(es)	
5	Joining Method Process(es)	
6	Time taken by learner	

Part 1: Critical Dimensions

			Grade Awarded			
	Task	Specification and assessment criteria	D	M	P	F
1	Marking out, dimensional accuracy	Development of component to template: (Radial Line or Triangulation – determined by forming method) on template paper or thin sheet metal. Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
2	Marking out, dimensions accurate.	Transfer from template to plate, including bend lines (if Triangulation method used) and checking templates: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
3	Cutting profile of Frustrum and checking templates	Method, shape to include deburring and accuracy of profiles: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
4	Forming of components.	Either by 'Rolling' (one piece) or 'Folding' (two halves) Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
5	Assembly and fit-up	Accuracy of seam/s, components to specification, to include concentricity. Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
6	Joint – (1 seam or two) accuracy and tack welds.	Freedom from tool marks. and correct size and location of tack welds. etc. : Distinction = 100% Merit = 85% Pass = 70% Fail = $< 70\%$				
7	Overall dimensional checks	Check all dimensions to drawing specification: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
8	Overall presentation	Overall surface finish, freedom from surface defects and forming marks: Distinction = Completely free Merit = Very minor defects Pass = Minor marks and defects Fail = Significant marks and defects				
How to determine the grade for Part 1:			D	M	P	F
Distinction = 6 Distinctions and all other grades to be Pass or higher Merit = 6 Merits or greater and all other grades to be Pass or higher Pass = No Fail grade Fail = Any Fail grade		Grade Awarded for Part 1				

Key:

D = Distinction

M = Merit

P = Pass

F = Fail

Part 2: Completed Inspection

			Grade Awarded			
	Element	Assessment Criteria (Pass / Fail only)	D	M	P	F
1	Height, Diameter, Angle and concentricity	Reducer finished sizes, diameter, concentricity No twists etc.				
2	Overall presentation	Deburred; freedom from tool marks and surface blemishes; accuracy of forming; good Finish.				
How to determine the grade for Part 2:			D	M	P	F
Pass = 2 Passes Fail = Any Fail grade			Grade Awarded for Part 2			

How to determine the overall grade for this practical test:			
Part 1	Part 2	Overall Grade Achieved	
			Course Tutor Signature
Distinction	Pass	Distinction	
Merit	Pass	Merit	
Pass	Pass	Pass	
Any Fail Grade		Fail	
Course Tutor Feedback			
Comment:			
Learner Signature:		Course Tutor Signature:	
Date:		Date:	
Internal Moderator / Verifier Feedback (if sampled)			
Comment:			
Internal Moderator / Verifier Signature:		Date:	
External Moderator (if sampled)			
I have checked the information recorded in this document and am* / am not* satisfied of its accuracy, authenticity and validity (* Delete as appropriate and comment if required)			
External Moderator Signature:		Date:	



DECLARATION OF AUTHENTICITY

This declaration must be completed and signed by the learner and countersigned by the tutor/assessor.

Learner Name:

Learner Number:

Centre:

Learner statement of authenticity

I confirm that the attached assignment/portfolio is all my own work* and does not include any work completed by anyone other than myself. I have completed the assignment/portfolio in accordance with the Awarding Body instructions and within the time limits set by my Centre.

Signature:

Date:

Centre confirmation of authenticity

On behalf of(insert centre name), I confirm that the above mentioned learner, to the best of my knowledge, is the sole author of the completed assignment/portfolio attached.

Signed:

Date:

Name:

Job Description:

*Unless otherwise stated e.g. for some entry level qualifications learners can work together but should show sections which are their own work.