

PRACTICAL TEST MARK SHEET FOR
ADVANCED FABRICATION PROCESSES (GENERAL)



TRANSFORMER

Level 3 Award and Diploma in Fabrication and Welding Practice

Unit 23: Advanced Fabrication Processes (General)

Learner Name:

Centre Name:

For this practical test the learner will complete the fabrication and weld on low carbon steel

Time Allowed = 12 hours

To be completed by the learner, by hand:

1	Thickness of Parent Material	
2	Welding Process	
3	Cutting Process(es)	
4	Forming Process(es)	
5	Time taken by learner	

Part 1: Critical Dimensions

			Grade Awarded			
	Task	Specification and assessment criteria	D	M	P	F
1	Marking out, dimensional accuracy	Elevation and plan on template paper (Triangulation): Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail > 2.0mm				
2	Marking out, dimensional accuracy	Transferring from template to plate bend lines, templates for checking: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail > 2.0mm				
3	Cutting profiles of components and checking templates	Mechanical/Thermal cutting of components – check with template: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail > 2.0mm				
4	Forming of components. Checking accuracy to templates	Forming of transformers and rolling of circular band. Check accuracy to template: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail > 2.0mm				
5	Assembly of components	Fit up/Tack welding of components to drawing: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail > 2.0mm				
6	Acceptable weld size	Acceptable weld size in relation to plate thickness: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail > 2.0mm				
7	Welding procedure	Length of weld uniform, free from defects: Distinction = 100% Merit = 85% Pass = 70% Fail < 70%				
8	Accuracy of finished component	Overall sizes within acceptable limits, distortion control: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail > 2.0mm				
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, diameters, square measurements	Transformer height, diameters and square dimensions all within acceptable limits.				
2	Overall presentation	Deburred; freedom from tool marks; no spatter; good finish				
3	Weld symbols	All weld symbols interpreted correctly				
How to determine the grade for Part 2:			D	M	P	F
Pass = 3 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 candidates can work together but should show sections which are their own work.