

PRACTICAL TEST MARK SHEET FOR  
**ADVANCED FABRICATION PROCESSES (GENERAL)**



**BREECHES PIECE**

**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 = 14 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 (Radial line): Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
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 = $> 2.0\text{mm}$				
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 = $> 2.0\text{mm}$				
4	Forming of components. Checking accuracy to templates	Forming of segments. Check accuracy to template: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
5	Assembly of components	Fit up and Tack welding of components to drawing: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
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 = $> 2.0\text{mm}$				
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 = $> 2.0\text{mm}$				
<b>How to determine the grade for Part 1:</b>			<b>D</b>	<b>M</b>	<b>P</b>	<b>F</b>
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		<b>Grade Awarded for Part 1</b>				

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, angles	Breeches piece height, diameters and angles all within acceptable limits.				
2	Overall presentation	Deburred; freedom from tool marks; no spatter; good finish.				
3	Weld symbols	All weld symbols interpreted correctly.				
<b>How to determine the grade for Part 2:</b>			<b>D</b>	<b>M</b>	<b>P</b>	<b>F</b>
Pass = 3 Passes Fail = Any Fail grade		<b>Grade Awarded for Part 2</b>				

<b>How to determine the overall grade for this practical test:</b>			
Part 1	Part 2	Overall Grade Achieved	
			<b>Course Tutor Signature</b>
Distinction	Pass	<b>Distinction</b>	
Merit	Pass	<b>Merit</b>	
Pass	Pass	<b>Pass</b>	
Any Fail Grade		<b>Fail</b>	
<b>Course Tutor Feedback</b>			
Comment:			
Learner Signature:		Course Tutor Signature:	
Date:		Date:	
<b>Internal Moderator / Verifier Feedback (if sampled)</b>			
Comment:			
Internal Moderator / Verifier Signature:		Date:	
<b>External Moderator (if sampled)</b>			
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.

PRACTICAL TEST MARK SHEET FOR  
**FABRICATION PROCESSES (GENERAL)**



**CRANE END BUFFER**

**Level 2 Award and Certificate in Fabrication and Welding Practice**

Unit 6: 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	Length, width, height, joggle, slope ends: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
2	Cutting of plates, angle, slot etc.	Mechanical/Thermal cutting of plates, angle, slot: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
3	Marking out, drilling of holes	Pitch, Cross centres, Edge distance, Hole size: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
4	Forming of components	Forming of joggle to web plate: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
5	Assembly of components	Fit up and squareness of components, web to flanges: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
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 = $> 2.0\text{mm}$				
7	Welding procedure	Length of weld uniform, free from defects: Distinction = 100% Merit = 85% Pass = 70% Fail = $< 70\%$				
8	Accuracy of finished component	Overall size within acceptable limits, distortion control: Distinction = Correct Merit = $\pm 1.0\text{mm}$ Pass = $\pm 2.0\text{mm}$ Fail = $> 2.0\text{mm}$				
<b>How to determine the grade for Part 1:</b>			<b>D</b>	<b>M</b>	<b>P</b>	<b>F</b>
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Key:

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**Part 2: Completed Inspection**

			Grade Awarded			
	Element	Assessment Criteria (Pass / Fail only)	D	M	P	F
1	Holes and slots	Holes and slots within acceptable limits.				
2	Overall presentation	Deburred; freedom from tool marks; no spatter; good finish.				
3	Weld symbols	All weld symbols interpreted correctly.				
<b>How to determine the grade for Part 2:</b>			<b>D</b>	<b>M</b>	<b>P</b>	<b>F</b>
Pass = 3 Passes Fail = Any Fail grade		<b>Grade Awarded for Part 2</b>				

<b>How to determine the overall grade for this practical test:</b>			
Part 1	Part 2	Overall Grade Achieved	
			<b>Course Tutor Signature</b>
Distinction	Pass	<b>Distinction</b>	
Merit	Pass	<b>Merit</b>	
Pass	Pass	<b>Pass</b>	
Any Fail Grade		<b>Fail</b>	
<b>Course Tutor Feedback</b>			
Comment:			
Learner Signature:		Course Tutor Signature:	
Date:		Date:	
<b>Internal Moderator / Verifier Feedback (if sampled)</b>			
Comment:			
Internal Moderator / Verifier Signature:		Date:	
<b>External Moderator (if sampled)</b>			
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:	



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