

Welder
 Shielded Metal Arc Welding (SMAW)
 (simple welding, window and door making)

INTERNAL	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/>													
ASSESSMENT & ASSESSOR DETAILS	ASSESSMENT DATE:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> </tr> <tr> <td style="font-size: 8px; text-align: center;">DAY</td> <td style="font-size: 8px; text-align: center;">MONTH</td> <td colspan="2" style="font-size: 8px; text-align: center;">YEAR</td> <td colspan="2"></td> </tr> </table>							DAY	MONTH	YEAR			
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EXTERNAL	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/>													
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ASSESSMENT RESULTS SUMMARY FORM	<hr style="border-top: 1px dotted black;"/>
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PBTE OFFICE ONLY	1. DATE FORM RECEIVED: _____	2. DATE ENTERED INTO DATABASE: _____
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ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD			DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	OBSERVATION	desired outcomes for successful assessment of shielded metal arc welding (smaw) (simple welding, window and door making)	COMPETENT	NOT YET COMPETENT
Practical skill demonstration			✓	<ul style="list-style-type: none"> DEMONSTRATION OF MEASURING, CUTTING & WELDING OBSERVATION OF SAFETY MEASURES 		
Knowledge Test		✓		<ul style="list-style-type: none"> Answer any questions your Assessor may have during the practical assessment Answer questions during viva-voice 		

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ASSESSMENT NOTES

GUIDANCE FOR CANDIDATES

To meet this standard you are required to:

- Correct use of PPE
- Identify the types of welding machines.
- Correct use of welding machines
- Safety Environment.
Read Lay out according to Drawing.
- Identify types of welding Joints.
- Select suitable electrodes for welding.
- Make proper housekeeping at workplace.

GUIDANCE FOR ASSESSORS

Assessors will need the awareness about PPE,s health & safety measurs.To know aboutwelding machines and their types,He will be able for correct use of welding machines .He could read layout according to drawing. He must be well aware about welding joints and selection of electrodes according to job. He must know the importance of housekeeping.

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CANDIDATE ASSESSMENT

CANDIDATE
NAME:

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

ACTIVITIES	CANDIDATE RESPONSE
<p>Apply personal, workplace ,tools & equipment safety measures and Perform operations related to Shielded Metal Arc Welding (SMAW)</p>	<p>Your final assessment consists of four hour observation by the assessors ofwelder, to follow safety rules at workplace by welder. He will be expected to apply personal safety , workplace safety , tools & equipment safety and job safety at all times.</p> <p>He will be able to:</p> <ol style="list-style-type: none"> 1-Select personal protective equipment. 2-Wear, adjust, and maintain personal protective equipment. 3-Ensure personal protective equipment is cleaned and stored in proper place. 4- Apply following safety measures at workplace <ul style="list-style-type: none"> • Ensure Ventilation • No Inflammable material nearby • Availability of Fire extinguishers • Secure electrical connections • Ensure earthling • No light reflection 5-Proper housekeeping at workplace. 6-Ensure the availability of first aid box at the workplace 7- Apply safety measures to the following tools and equipment <ul style="list-style-type: none"> • Electric Welding machine and equipment • Mechanical cutting and beveling machines 8- Perform cleaning of welding tools and equipment before and after the job 9- Ensure safe placement of measuring, cutting and welding tools. 10- Perform cleaning of welding tools and equipment before and after the job 11- Arrange the workplace according to the requirement of job <ul style="list-style-type: none"> • Welding machine and accessories • Electric supply • Jigs and fixtures • Lighting 12-Prepare the required welding machine as per job requirement <ul style="list-style-type: none"> • Type of current (AC/DC) • Current polarity 13-. Arrange proper tools and cleaning chemicals

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- 14-Prepare job as per drawing
 - Job preparation
 - Job cleaning
 - Tacking of job
- 15-Arrange the electrode
- 16- Adjust the electric current for welding
- 17- Perform welding as per job drawing
 - Pre heat the job, if required
 - Perform welding operation
 - Inter-pass cleaning
 - Inter-pass inspection

Your assessor will be looking for your competence in:

- 1-Selecting personal protective equipment, their proper use and stored in proper place after welding.
- 2- Application of following safety measures at workplace
 - Ensure Ventilation
 - No Inflammable material nearby
 - Availability of Fire extinguishers
 - Secure electrical connections
 - Ensure earthing
 - No light reflection
- 3-Proper housekeeping at workplace.
- 4-Ensure the availability of first aid box at the workplace.
- 5- Apply safety measures for welding tools and equipment.
- 6- Cleanliness of tools and equipment before and after the job
- 7- Ensure safe placement of measuring and cutting and welding tools.
- 8-Prepare the required welding machine as per job requirement
 - Type of current (AC/DC)
 - Current polarity
- 9- Arrange proper tools and cleaning chemicals
- 10-Prepare job as per drawing
 - Job preparation
 - Job cleaning
 - Tacking of job
- 11-Arrange the electrode
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ASSESSORS JUDGEMENT GUIDE

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	ASSESSORS COMMENTS
<p>1. Completes practical task of performing, measuring, cutting & welding, (post welding operations) like deslagging, and cleaning under observation by an assessor</p>	<p>During a practical assessment, under observation by assessors, the candidate correctly carry out the following tasks:</p> <p>1-Correct select of personal protective equipment.its use, proper cleanliness and its storage in proper place.</p> <p>2- Safety measures at workplace</p> <ul style="list-style-type: none"> • Ensure Ventilation • No Inflammable material nearby • Availability of Fire extinguishers • Secure electrical connections • Ensure earthing • No light reflection <p>3-Proper housekeeping at workplace.</p> <p>4-Availability of first aid box at the workplace</p> <p>5- Safety measures for welding tools and equipment</p> <p>6- Cleaning of tools and equipment before and after the job</p> <p>7- Safe placement of measuring , cutting and welding tools.</p> <p>8- Arrange the workplace according to the requirement of the job</p> <ul style="list-style-type: none"> • Welding machine and accessories • Electric supply • Jigs and fixtures • Lighting <p>9-Prepare the required welding machine as per job requirement</p> <ul style="list-style-type: none"> • Type of current (AC/DC) • Current polarity <p>10-. Arrange tools and cleaning chemicals</p> <p>11-Prepare job as per drawing</p> <ul style="list-style-type: none"> • Job preparation • Job cleaning • Tacking of job <p>12-Arrange the electrode</p> <p>13- Adjust the electric current for welding</p> <p>14-. Perform welding as per job drawing</p> <ul style="list-style-type: none"> • Pre heat the job, if required • Perform welding operation • Inter-pass cleaning • Inter-pass inspection 	

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ACTIVITIES	MINIMUM EVIDENCE REQUIRED	ASSESSORS COMMENTS
2. Answer any questions their Assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application:	