

RJA Panel

1. Md. Al Amin
Skilled Worker, CISC
2. Md. Sujon
Skilled Worker, CISC
3. Md. Abul Khayer
Skilled Worker, CISC
4. Md. Masud Rana
Skilled Worker, CISC
5. Md. Alam
Skilled Worker, CISC
6. Md. Ramiz Uddin Rony
Skilled Worker, CISC
7. Md. Shahid
Skilled Worker, CISC
8. Md. Rubel
Skilled Worker, CISC
9. Md. Sharif
Skilled Worker, CISC
10. Md. Jahirul Islam Mithu
Skilled Worker, CISC

RJA Facilitator

Engr. Md. Belayet Hossain
Manager-PTP Lead Training,
Output-1 (SEP-B)

Engr. Md. Anisuzzaman
Training Coordinator, Output-3,
SEP-B

RJA Recorder

Iftakharul Alam Khan
Project Officer, SEP-B

Rapid Job Analysis of Welder (Grill Maker)



06 May 2015

**Skills and Employment Programme-
Bangladesh (SEP-B)**



Results For The Real World

Duties and Tasks

A. Practice Occupational Health and Safety (OHS) Procedure in the Workplace:

A1. Follow safety signs and regulations	A2. Apply personal protective equipment	A3. Control housekeeping hazards	A4. Apply first aids on minor injuries	A5. Control Electrical Hazards	
--	--	---	---	---------------------------------------	--

B. Apply Fundamental Skills in Welding Works:

B1. Apply hand tools and power tools	B2. Interpret Technical Drawings and Specifications	B3. Draw freehand sketching of different shapes	B4. Take Straight Measurement	B5. Take Rectangular Measurement	B6. Take Circular Measurement
B7. Identify different shapes of grill works	B8. Maintain tools and equipment				

C. Prepare Materials for Welding:

C1. Cut work pieces as per measurement (Straight/Circular /Bevel)	C2. Grind work pieces	C3. Perform chipping and filing the work pieces	C4. Make Triangular Shape Work piece	C5. Make Rectangular Shape Work piece	C6. Make Circular Shape Work piece
C7. Drill the work piece					

D. Weld Metal by Manual Arc Welding Process:

D1. Weld steel sheets in flat (1G / 1F) position	D2. Weld steel sheets in horizontal (2G / 2F) position	D3. Weld steel sheets in vertically downward (3G/ 3F) position	D4. Weld steel sheets vertically up (3G / 3F) position	D5. Weld steel sheets in overhead (4G /4F) position	D6. Weld steel pipes in rolling (1G) position
D7. Weld steel pipes in horizontal (2G) position	D8. Weld steel bars in flat position (rolling)	D9. Weld steel bars in horizontal position	D10. Weld steel bars in overhead position (bar axis horizontal)	D11. Weld stainless steel sheets in flat (1G) position	D12. Weld stainless steel sheets in horizontal (2G) position
D13. Weld stainless steel sheets vertically up (3G)	D14. Weld stainless Steel sheets in overhead position	D15. Weld stainless steel pipes in flat (1G) position			

E. Perform Projects on Grill Works:

E1. Prepare grill by flat/square bar for window/balcony	E2. Prepare door	E3. Prepare folding shutter	E4. Prepare window by z-bar	E5. Prepare grill for main gate	E6. Prepare stair railing by Stainless Steel pipe
E7. Prepare flexible door (Kasi gate)					

F. Perform Communication:

F1. Communicate with supervisor /workers	F2. Assist supervisor to prepare work schedule	F3. Receive instruction from Supervisor for day to day works	F4. Provide instruction for cleaning the workplace	F5. Provide instruction to apply safety measures	F6. Communicate over telephone
F7. Write progress report of the work	F8. Keep self and workers' attendance records	F9. Locate the site and give instruction to others			

G. Develop Professionalism:

G1. Take advice from supervisor	G2. Participate in trainings	G3. Attend meetings	G4. Work with the specialized skilled worker	G5. Visit new sites	G6. Explore new opportunities of learning
--	-------------------------------------	----------------------------	---	----------------------------	--

Additional Information

<u>Worker Traits</u>		<u>Entry Requirements</u>	<u>Career Paths</u>
<ul style="list-style-type: none"> • Punctual • Physically / Mentally healthy • Physically strong • Male / Female • Good Communication Skill • Quick Learner • Honesty • Good attitude • Eagerness 	<ul style="list-style-type: none"> • Commitment • Patience • Disciplined • Attentive • Good conduct • Self Interest • Concentration on work • Friendly • Co-operative • Reliable 	<ul style="list-style-type: none"> • Male / Female • Grade 5 Dropouts or equivalent • Ability to read and write <p><u>Duration of Training</u> 2-3 months 04 hrs/day</p>	<p>Sr. welder Foreman/Supervisor Contractor</p> <p><u>Future Trend</u> This sector is growing rapidly Employment demand is increasing</p>

<u>Tools and Equipment</u>		<u>Personal Protective Equipment</u>
<ol style="list-style-type: none"> 1. Hand Grinding machine 2. Bench Grinding machine 3. Hand Shearing machine 4. Bending machine 5. Rolling machine 6. Gas cutting equipment 7. Hand cutting set 8. AC welding machine 9. Bench drill machine 10. Hand drill machine 11. Hammer 12. Snipper 13. Wire brush 14. Vice 	<ol style="list-style-type: none"> 15. Chipping hammer 16. Adjustable wrench 17. Ballpeen hammer 18. Sledge/wooden hammer 19. Pliers 20. Weld gauge 21. Rail line 22. Measuring steel tape 23. Pop gun/Repeat gun 24. Tester 25. Stainless steel 26. Electrode 27. Different welding materials 	<ol style="list-style-type: none"> 1. Mask 2. Hand Gloves/ Leather gloves 3. Safety shoes 4. Apron/ Full Sleeve Leather Jacket 5. Eye Shield 6. Helmet 7. Safety belt 8. Goggles 9. Ear plug

<u>Related Knowledge</u>	
<ol style="list-style-type: none"> 1. Introduction of welder and its scope 2. Measurement, different tools, machinery and theirs uses 3. Understanding of different types of welding 4. Safety precaution 5. Different types of power tools and theirs uses- 	<ol style="list-style-type: none"> 6. Different accessories (hardware) of grill used in welding works 7. Estimating and costing 8. Working arrangement 9. Working Plan 10. Simple maintenance works 11. Basic Mathematical calculation