

## RJA Panel

Gobhido  
Rod Binder, Hemayetpur Ideal

Md. Shahabul Alam  
Rod Binder, Hassan Associates

Md. Fulzer Rahmat  
Rod Binder, Monico

Md. Md. Suruj Miah  
Rod Binder, Monico

Md. Zakir  
Rod Binder, Monico

Md. Shanto  
Rod Binder, Sundarban Ltd

Md. Razu  
Rod Binder, Sundarban Ltd

Md. Helal  
Rod Binder, Sundarban Ltd

Md. Khorshed Alam  
Rod Binder, Leguna

Md. Saiful Islam  
Rod Binder, Leguna

## RJA Facilitator

Engr. Md. Belayet Hossain  
Training Coordinator, Output-1,  
SEP-B

## RJA Co-Facilitator, Recorder and Coordinator

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

## Observer

Mohammad Zulfikar Ali  
Secretary, BACI

# Rapid Job Analysis of Rod Binder



**10 November 2014**

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

Implemented by:



Results For The Real World

# Duties and Tasks

## A. Practice Occupational Health and Safety (OHS) Procedure:

<b>A1.</b> Administer safety of the workers	<b>A2.</b> Administer safety of the workplace	<b>A3.</b> Follow safety signs and regulations	<b>A4.</b> Apply personal protective equipment	<b>A5.</b> Control housekeeping hazards	<b>A6.</b> Ensure toilet and sanitation facilities at worksite
<b>A7.</b> Apply first aids on minor injuries	<b>A8.</b> Respond to emergencies and personal wellbeing				

## B. Maintain Tools, Equipment and Materials Used in Rod Binding Works:

<b>B1.</b> Maintain inventory for tools and equipment	<b>B2.</b> Maintain Rod Binding materials	<b>B3.</b> Arrange Rod Binding tools and equipment	<b>B4.</b> Repair minor faults of tools and its parts	<b>B5.</b> Notify supervisor in case of broken tools and equipment	<b>B6.</b> Fill up the requisition form.
-------------------------------------------------------	-------------------------------------------	----------------------------------------------------	-------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------

## C. Perform Measurement and Calculation for Rod Binding Works:

<b>C1.</b> Draw the rod binding layout in the basement	<b>C2.</b> Measure, length, wide and height of structure	<b>C3.</b> Convert units of measurement	<b>C4.</b> Measure diameter of round bar	<b>C5.</b> Calculate cross-sectional area of round bar	<b>C6.</b> Calculate weight of round bar
<b>C7.</b> Calculate percentage	<b>C8.</b> Estimate the wages for required labor	<b>C9.</b> Calculate cost of materials for rod binding works			

## D. Perform Basic Works of Rod Binding:

<b>D1.</b> Interpret specifications from working drawings	<b>D2.</b> Interpret rod binding schedule	<b>D3.</b> Cut rods in given lengths	<b>D4.</b> Straighten supplied rods	<b>D5.</b> Prepare steel fixing work-bench	<b>D6.</b> Cut rod binding wires
<b>D7.</b> Bend rods as per requirement	<b>D8.</b> Fix rod for mat	<b>D9.</b> Prepare stirrups/rings of different shapes and sizes	<b>D10.</b> Bind stirrups/rings of column and beam rods	<b>D11.</b> Make crank across rods in different sizes	<b>D12.</b> Prepare chairs and legs for columns
<b>D13.</b> Prepare reinforcement for beams	<b>D14.</b> Prepare reinforcement for floor slab	<b>D15.</b> Prepare reinforcement for ceiling	<b>D16.</b> Bend the lapping of rod for column, beam and slab	<b>D17.</b> Perform dual bar lapping for rod	<b>D18.</b> Make extra top to the beam
<b>D19.</b> Prepare reinforcement rods in a stair	<b>D20.</b> Prepare reinforcement for cantilever beam and slab	<b>D21.</b> Prepare reinforcement for base and shear walls	<b>D22.</b> Prepare reinforcement rods for arch slab	<b>D23.</b> Prepare cranked for reinforcement of beams, columns and ceiling	

**E. Install Reinforcement of Construction Works:**

<b>E1.</b> Erect reinforcement for basement/foundation	<b>E2.</b> Erect reinforcement for column	<b>E3.</b> Erect reinforcement for beam	<b>E4.</b> Erect reinforcement for ceiling/slab	<b>E5.</b> Erect reinforcement for lintel	<b>E6.</b> Erect reinforcement for protection wall
<b>E7.</b> Erect reinforcement for reserve tank	<b>E8.</b> Erect reinforcement for over-head tank	<b>E9.</b> Put clear covering in reinforcement areas	<b>E10.</b> Fix crank in reinforcement of beams, columns and ceiling	<b>E11.</b> Level the erected reinforcement	

**F. Perform Communication:**

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

**G. Develop Professionalism:**

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

## Additional Information

<u>Worker Traits</u>		<u>Entry Requirements</u>	<u>Career Path</u>
Punctual Physically and Mentally healthy Physical fitness Male / Female (less) Good learner Patience Good attitude	Disciplined Honesty Non-discrimination Team sprit Good communication	Male/ Female (less) Grade-V to VIII or equivalent Age: 18 years  <u>Duration of Training</u> 3-6 months (4 hours / day)	Sub-Contractor/Supervisor Sr. Foreman Jr. Foreman Sr. Rod Binder  <u>Future Trend</u> This sector is growing fast and huge demand for skilled labor in the local job market and foreign.

<u>Tools and Equipment</u>	<u>Measuring Instruments</u>
<ol style="list-style-type: none"> <li>1. Butt gauge</li> <li>2. Hand drill</li> <li>3. Chisel (Different size)</li> <li>4. L square</li> <li>5. Line level</li> <li>6. Carpenter's level</li> <li>7. Centre Punch</li> <li>8. Pliers</li> <li>9. Rod binding key</li> <li>10. Rod cutter machine</li> <li>11. Hammer</li> <li>12. Rod bending table</li> <li>13. Spanner</li> <li>14. Hack saw</li> <li>15. Die (different sizes)</li> <li>16. Wire cutter</li> <li>17. Iron plate</li> <li>18. Mandrel machine</li> </ol>	Measuring Steel tape Plastic tape Marking gauge Tri-square Calculator Olon Calculator Pipe level Water level  <u>Personal Protective Equipment</u> Dust mask Goggles Gloves Safety shoes Aprons Safety belt Helmet Jute cloth

<u>Related Knowledge</u>	
Name of safety equipment and its uses Types of rod binding works Use of tools and equipment Name of the materials Understand drawing and specification Read, write and numeracy knowledge (simple math) Rules of workplace safety Use of measuring equipment Use of different types of rod	Safety rules and symbols General preventative maintenance of equipment Different steps of plumbing works Types of joint Type of valves Assemble procedure Possible causes of accidents Types of accidents in rod binding works Significance the first aid