

Occupational Profile for BAR BENDER

Worker Behaviours	General Knowledge and Skills
<ul style="list-style-type: none"> Environment conscious Hard working Organised Patient Quality conscious Responsible Safety conscious Team player Time conscious 	<ol style="list-style-type: none"> Basic electrical Basic shuttering Calculation Communication skills Drawing skills Material handling Measurement Computer skills
TOOLS, EQUIPMENT & MATERIALS	FUTURE TRENDS / CONCERNS
<ul style="list-style-type: none"> Anvil Augur bit Binding hook Chalk, Pencil Chisel Claw bar Claw hammer Die (25, 20, 16, 12, 10, 8, 6 mm dia.) Hacksaw Hammer Measuring tape Painting brush Plumb bob Props Saw Shear cutter Sledge hammer Steel brush Timber Triangle file Try square Water level Work bench Bar bending machine Appropriate lubricant, paint Binding wire Nails Plastic sheet Ropes (Nylon & Coconut) Thread Reinforcement bars 	<ul style="list-style-type: none"> Acquire additional skills Educated personnel Mechanization OHS enforcement Use of crane Women participation

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DACUM Panel Members

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Royal Government of Bhutan

Produced for the

**Training Providers, Employers, Employees,
Trainees and Interested General Public.**

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DUTIES	← T A S K S →										
A Prepare for work	A1 Select work site	A2 Clear work site	A3 Clean work place	A4 Set up work bench	A5 Collect tools & equipment	A6 Receive instructions with drawings	A7 Study drawings	A8 Store reinforcement bar	A9 Prepare bar bending schedule		
B Ensure safety	B1 Wear safety gears	B2 Keep first-aid box	B3 Fence work area	B4 Store waste metal pieces	B5 Replace defective tools	B6 Display safety signs	B7 Follow safety rules				
C Ensure quality of work	C1 Verify quality of reinforcement bar (includes weight)	C2 Check ductility of reinforcement bar	C3 Prepare test samples	C4 Check scales and deformations	C5 Inspect bindings	C6 Check straightness of reinforcement works	C7 Ensure correctness of hooks, laps and anchors	C8 Ensure correct spacing and clear cover	C9 Ensure correct diameter	C10 Ensure no congestion of bars	
D Prepare work pieces	D1 Straighten reinforcement bars	D2 Refer drawing for specifications	D3 Prepare sample work pieces	D4 Seek approval of sample pieces	D5 Mark measurements	D6 Cut rebar to required length	D7 Bend bars	D8 Make stirrup / rings / cornice / ties	D9 Make spacers / chairs	D10 Cut binding wire	
E Carry out reinforcement work	E1 Mark spacing for bars	E2 Bind work pieces in position	E3 Lay out footing mesh	E4 Erect column	E5 Align column	E6 Spread lining for concrete pours	E7 Fix reinforcement into position in formwork	E8 Assemble bar in position for slab	E9 Maintain clear cover and end cover		
F Carry out inspection during concreting	F1 Inspect bar position and spacing	F2 Tighten the laps	F3 Correct clear cover and end cover	F4 Straighten bent bars	F5 Re-position chairs and bars	F6 Remove foreign materials	F6 Seal gaps and openings				
G Maintain tools & equipment	G1 Set up machine	G2 Prepare maintenance schedule / plan	G3 Carry out periodic checks	G4 Lubricate machine parts	G5 Tighten loose parts	G6 Replace faulty parts	G7 Clean machine				
H Upgrade professional skills and knowledge	H1 Exchange ideas with co-workers	H2 Consult site engineer	H3 Familiarize with new tools & equipment	H4 Study new products in the market	H5 Identify training needs	H6 Attend workshop & trainings	H7 Participate in competitions				

NOTE: OCCUPATION TITLES USED ELSEWHERE:

- RE – BAR FIXER
- ROD BENDER