

REDESIGNED MODULES FOR THE SECTOR

OF

ASSISTANT BAR BENDER & STEEL FIXER (CONSTRUCTION)

Under
MODULAR EMPLOYABLE SKILLS (MES)

Redesigned in
2014

By
Government of India
Ministry of Labour & Employment (DGE&T)

PREFACE

Since Construction & Real Estate Sector is a fast developing industry all over the world, particularly in India, there is huge demand for skilled construction labourers. Any individual, who has a minimum 5th standard qualification, irrespective upper age factor, can join this course, and start earning a good income and thereby support his/her family.

GENERAL INFORMATION

Name of Sector	Construction
Name of Module	Assistant Bar Bender & steel Fixer
MES Code	CON703
Qualification Pack Code	
Competency as per NCO Code	
Duration of Course	500 Hrs
Entry Qualification of Trainee	5 th Passed
Age	18 years & above
Unit Size	20
Power Norms	2 KW

Space Norms	60 sqm
Job Role	To work as a bar bender by performing straightening, marking, cutting of steel bars: making & using ties, hooks, links, chairs, spacers, cranks, stirrups & steel mesh.
Instructor's Qualification	NCVT in relevant trade Or 3 years Diploma in Civil Engg.
Desirable Qualification	CITS

Course Contents for the Module of

Assistant Bar Bender & Steel Fixer (CON106)

Theory	Practical Components
Role and description of trade. Tools & equipments used, safety precautions, knowledge of measurements and conversion to other system.	Identification of tools & equipments used in masonry & concreting. Use of protective clothing, boots, goggles, & equipments. Good housekeeping practices, proper handling of materials & waste disposal. Safety precautions & safety belts. Safe storage of materials at worksite. measurement of length & diameter in MKS & FPS systems.
Identification of steel as per quality & classification, care & safe use of tools , understanding tolerances & house keeping.	Methods to stack steel at work place. Transporting steel by head load and by mechanical means.
Storage of steel in store and at work place.	Identification and straightening of steel from coils.
Knowledge of marking on steel, safety precautions in using rod cutting machine.	Practice with marking on steel, cutting manually & by machine.
Various ties used in binding. Safety precautions with tying machine.	Practice with tying of steel with binding wire manually & by binding machine.
Hooks, chairs & links and their uses.	Preparation of hooks, links & chairs/spacers within the tolerances.
Cranks & stirrups and their uses.	Preparation of cranks & stirrups within the tolerances.
Protective painting on steel.	Preparation of steel mesh for precast slab within tolerances.
Steel overlapping.	Practice to crank the steel for overlapping.
Visit to industry and construction site.	

List of Tools & Equipments for the Module

Of

ASSISTANT BAR BENDER & STEEL FIXER

Sl. No.	Description	Quantity
1	10 pounds hammer	6
2	0.1 P hammer	16
3	Chisel	11
4	Binding hook	21
5	Lever-6,8, 10 &12 mm	21
6	Lever 900 mm long-16,20 & 25 mm	12
7	Plumb bob	4
8	Measuring tape-3 m	21
9	Measuring tape-15 m & 30 m	1 each
9	Tri-square	4
10	Pin plate	20
11	Bull head rail pieces(90pbs) 600 mm long	6
12	Chalk box	5
13	Binding wire-18 gauge	125 kg
14	Reinforcement steel rods-8,10,12,16 &25 mm	0.75 tonne
15	Wooden planks-3mx25cmx5cm	10
16	Wooden posts-1.5mx10cmx10cm	40
17	Paint-smoke grey	10 lit
18	Wood primer	10 lit
Safety items		
19	Safety helmet	21
20	Safety shoes	21
21	Goggles	21
22	Hand gloves	21
Machineries		
23	Bar cutting machine	2
24	Bar binding machine	2
25	Bar bending machine (Manual)	2