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TRAINING PARTNER INDIAVISION REALTY AND INFRASTRUCTURE PVT LTD

In Consortium with

PK ENTERPRISES

Approved Curriculum 120 Hours

Assistant Mason

SECTOR: CONSTRUCTION

SUB-SECTOR: REAL ESTATE AND INFRASTRUCTURE

CONSTRUCTION

OCCUPATION: MASONRY

REF. ID: CON/Q0102, VERSION 1.1

NSQF LEVEL: 3

Arunachal Pradesh Building & Other's Construction workers welfare board (APB&OCWWB)

ESS Sector, Itanagar-791110







Assistant Mason

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of "Assistant Mason", in the "construction" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Assistant Mason			
Qualification Pack Name & Reference ID.	CON/QO102	ON/QO102		
Version No.	1.1	Version Update Date	01-08 - 2022	
Pre-requisites to Training	Preferably 5 th standard			
Training Outcomes	 Gain insight into Introduction to assist career progression Erect and dismant procedure for erection Handle and use has hand and power too quality. Right selection Assist in tiling, storagined in tiling, storagined in tiling, storagined in tiling, storagined in the works: - Assistance in Work effectively in Prioritizing activities Work according to 	program, participants will be able to: Assistant Mason job role and its career progression:- sistant mason job role ,its roles and responsibilities and its title temporary scaffold of 3.6-meter height: - Standard ion & dismantle of 3.6-meter temporary scaffold and and power tools related to masonry work: - Various rols & Equipment used in masonry work, their specifications & tion of tools & equipment and their upkeep. Stone laying and concrete masonry works: - Assistance cone laying and concrete masonry works. Hock including fixing doors and windows and plastering required in brick/ block including fixing doors and windows. In a team to deliver results at a construction site: - and organising resources to meet desired outcome to personal health, safety and environment protocol at - Importance of Health & Safety aspects & measures to be		

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This course encompasses 6 out of 6 National Occupational Standards (NOS) of "Assistant Mason" Qualification Pack issued by "Construction Skill Development Council of India".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction job role Theory Duration (hh:mm) 01:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code	 General Discipline in the class room. Basic knowledge of Unit & measurement & arithmetic calculation. Basic term used and types of masonry works. Role of an Assistant Mason & job opportunities. 	 Classroom having seating requirement for 30 people. Projector Toilet/Urinals (Separate for gents and Ladies) Blackboard
2	Erect and dismantle temporary scaffold of 3.6 meter height Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code CON/N0101	 Theory: - What is scaffolding and its purpose of its erection Common materials and tools used for erection of scaffolding (pipe, cup lock (vertical and ledgers), H-frames, Bamboo & Bali Different components of a temporary scaffolding such as base, toe board, guard rails, platform, walkways, ladder etc., their function and placing Spacing/ height to be provided among different components of a temporary scaffold Safety measures to be followed while tightening, fixing/ assembling different part of scaffold together Function of different hand tools like hammer, spanner, pulleys, hooks, ropes etc. used for erection/ dismantling of scaffolds. Use of different scaffolding accessories like different kind of clamps, washers, props, bracings and other supporting members Material handling and shifting methods while scaffolding erection/ dismantling is underprocess Standard safety procedure while working at height. Checks to be done on completion of erection of scaffolds, such as verticality check, stability check Demonstration/ practical: - Sort and shift scaffolding material from stock yard to space of erection Erect scaffolds of 3.6 mtr. height using pipes and cup locks using appropriate hand tools Use clamp and other supporting members to ensure stability and verticality of the scaffolds 	Hand tools 1. Hammer 2. Spanner (set) 3. Wrench 4. Pulley 5. Rope 6. Nuts and bolts Measuring Instruments 7. Measuring tape 8. Spirit level 9. Plumb-bob 10. Mason's line Materials 11. Cup-lock scaffolding components (set) 12. 40 NB pipes 13. Swivel coupler 14. Fixed clamp 15. Steel walers 16. Steel walkways 17. Aluminium/ GI ladder 18. Safety net PPEs & safety equipment's 19. Helmet 20. Safety shoes 21. Safety belt 22. Cotton hand gloves 23. Goggles 24. Reflective jackets 25. Safety message boards







 Work Knowledge of basic levelling devices such as water level, spirit level etc. and standard procedure for transferring level. Upkeep and safe handling practices required for the tools used. Mason's equipment such as ladder, step scaffolding, trestle etc, basic terminology & uses. Knowledge of indent procedure and its importance Knowledge of basic levelling devices such as water level, spirit level etc. and standard procedure for transferring level. Wedges Screeds Floats Bolster chisel Spade Corresponding NOS Code Identification of basic hand tools, measuring tools, power tools etc. Level transferring using basic levelling device. Description, use, care and maintenance of power and hand tools used for masonry work. 	Sr. Module No.	Equipment Required
tools as per application. 16. Tile cutters 17. Vibrators 18. Grinders 19. Concrete mixer	3 Handle and use hand and power tools related to masonry work Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code	Hand Tools 1. Trowel 2. Mason's hammer 3. String line 4. Jointers 5. Mallets 6. Wedges 7. Screeds 8. Floats 9. Bolster chisel 10. Spade MEASURING TOOLS 11. Measuring tape 12. Scale 13. Steel square POWER TOOLS 14. Power wet saws 15. Electric drills 16. Tile cutters 17. Vibrators 18. Grinders 19. Concrete mixer LEVELLING DEVICES 20. Water level tube 21. Spirit level 22. Plumb bob PPE'S 23. Safety helmets 24. Hand gloves

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the position and orientation of sections for marking etc. (hh:mm) the position and orientation of sections for marking etc. 4. Steel 5. Joint	,
Practical Duration (hh:mm) 20:00 Corresponding NOS Code Corresponding NOS Code - Basic method and techniques of preparing bed mortar, cement slurry and cement paste required for the tile laying / stone laying. Basic techniques for surface preparation. Importance of hacking of R.C.C. structures Basic properties of concrete including weight, slump, etc. and its batching according to the specified grade. Process of preparation of cement mortar. Process of brick soling and PCC flooring and its different types. Demonstration/Practical: Identification of the correct tools and materials required for relevant task. Demonstrate transferring, handling and proper stacking of tiles, granite and stones. How to Check and Ensure that the surface is free of dust, dirt, debris and loose concrete laitance for the evenness of surface prior to laying tiles/stones, concreting and flooring works. Proper sieving of aggregates Safety precautions to be taken while handling and properties and application ap	vel on's hammer ng line Il square ters asurement tape lets liges eds ts ter chisel de TOOLS TOOLS

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Skill India

RECOGONITION OF PRIOR LEARNING



Sr. No.	Module	Key Learning Outcomes	Equipment Required
	A coint in Insial/Isla al-	 Levelling, marking dummy dots, spreading mortar using trowel to the required thickness and arranging tiles and put spacers as per the design plan. Demonstrate proper compaction of concrete using vibrator or other appropriate tools. Demonstrate curing of finished surface. 	Hand Taala
5	Assist in brick/ block work including fixing doors and windows and plastering work Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code CON/N0107	 Theory: - Different types of masonry tools, their uses and their maintenance and care. Safety precautions to be taken while handling power tools. Basic leveling devices like plum bob, spirit level, their uses and transferring level. Understanding hand sketches and simple drawings to compute dimensions, understand the position and orientation of sections for marking etc. Laying and fixing of bricks/ blocks in position with alignment Different types of bonds and mix of mortar required for block/ brick work Process of preparation of cement mortar. Standard size of door/ window, type of materials and fittings used. process of alignment of the frames, checking the holdfast position, anchorage of frames to wall and filling of gap between wall and frames. Demonstration/Practical: - Identification of the correct type of tools and materials for relevant task. Demonstration of pre-wetting of the base surface prior to plastering. Proper transfer, handling and overall storage and staking of bricks / blocks. Demonstrate how to Check and Ensure that the surface is free of dust, dirt, debris and loose concrete laitance for the evenness of surface prior to laying bricks/ blocks and plastering. Proper sieving of aggregates. Proper mixing of cement and mortar in the required quantity for relevant work. Setting out the layouts and marking location of 	Hand Tools 1. Trowel 2. Mason's hammer 3. String line 4. Jointers 5. Mallets 6. Wedges 7. Screeds 8. Floats 9. Bolster chisel 10. Spade MEASURING TOOLS 11. Steel scale 12. Measuring tape 13. Spirit level 14. Steel square POWER TOOLS 15. Power wet saws 16. Electric drills 17. Tile cutters 18. Vibrators 19. Grinders 20. Concrete mixer LEVELLING DEVICES 21. Water level tube 22. Spirit level 23. Plumb bob PPE'S 24. Safety helmets 25. Hand gloves 26. Safety shoes 27. Safety harness
		 Setting out the layouts and marking location of doors and windows to be fixed. 	27. Safety harness 28. Nose mask

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RECOGONITION OF PRIOR LEARNING

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		 Building of bricks according to the different type of bonds. Checking of the holdfast position, proper alignment of frame and grouting of Fixing of standard sections for wooden/ metal windows, doors and ventilator frames. Demonstrate how to Check and measure the basic dimensions of the room/floor/walls like slope, right angle & surface plane during plastering. Level transferring to the required thickness of plastering, mark dummy dots and apply cement slurry on surface to be plastered. 	
6	Work effectively in a team to deliver desired results at the workplace Theory Duration (hh:mm) 01:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code CON/N8001	 Theory: - Method of oral and written communication skills with co-workers, trade seniors while handling and carrying out visual checks on various power or hand tools such as power saw, power wet saws, vibrators, tile cutters etc. Reading and interpretation of masonry works formats, permits, protocols, checklists How to interpret scope of masonry activities, material/ tools handling by adhering to instructions or consulting with seniors Method of providing instruction to subordinates or reporting to seniors clearly and promptly Seek necessary support and complete assigned tasks within stipulated time duration Keep good relation and maintain well behavior with co-workers Demonstration/ Practical: The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition Selection of materials, tools or devices for defined purpose under Handling of masonry tools and tackles and materials involved in masonry work. Carrying out level transferring. Carrying out mixing of concrete according to the requirement. Carrying layout works and proper fixing of door and window frames. 	 Classroom having seating requirement for 30 people. Urinals (male/female) separate Projector Blackboard







Sr. Module No.	Key Learning Outcomes	Equipment Required
Work according to personal health, safety and environment protocol at construction site Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code CON/N9001	 Theory: - Types of hazards involved in construction sites Types of hazards involved in electrical works Emergency safety control measures and actions to be taken under emergency situation Concept of: -	 safety helmet reflecting jackets Safety Belts safety shoes gum shoes hand gloves fire extinguisher safety boards nose mask ear plug first aid box





Sr.	Module	Key Learning Outcomes	Equipment Required	
No.				
	Total Duration: 120	Unique Equipment Required:		
	Hrs.	Classroom having seating requirement for 30 people, Toilet/Urinals (Separate for gents and Ladies), Projector, Blackboard, Work shop for practical assessment, Tool		
	Theory Duration	box with lock and key, Measuring tape/rule, Masons line, Plumb bob, Try Square,		
	20 Hrs.	Trowel, Mason's hammer, String line, Steel square, Jointers, Measurement tape ,Mallets, Wedges, Screeds, Floats, Bolster chisel, Power wet saws, Electric drills, Tile cutters, Vibrators, Grinders, Concrete mixer, Safety Helmets, Face shield, Overalls, Knee pads, Safety shoes, Safety belts, Safety harness, Safety Gloves, Safety goggles, Particle masks, Ear Plugs, Reflective jackets, Fire Extinguisher, Fire prevention kit, First Aid box, Safety tags, Safety Notice board		
	Practical Duration 100 Hrs.			

Grand Total Course Duration: 120 Hours 00 Minutes

(This syllabus/ curriculum has been approved by Construction Skill Development Council of India)

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