



Model Curriculum Helper

SECTOR: MINING SUB-SECTOR: MINING OPERATION EXPLORATION AND RESOURCE MANAGEMENT ENGINEERING SERVICES EVERY MINING OCCUPATION OCCUPATION: HELPER REF ID: MIN/Q0201 NSQF LEVEL: 1











TABLE OF CONTENTS

1.	Curriculum	01
2.	Trainer Prerequisites	04
3.	Annexure: Assessment Criteria	05





Helper CURRICULUM/SYLLABUS

This program is aimed at training candidates for the job of a "<u>Helper</u>", in the "<u>Mining</u>" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Helper			
Qualification Pack Name & Reference ID.	Helper MIN/Q0201			
Version No.	1.0 Version Update Date 12 – 12 – 2015			
Pre-requisites to Training	None (Normal literacy of	reading, writing and understar	nding).	
Training Outcomes	After completing this pro	gramme, participants will be a	ble to:	
	 Gain familiarity with the mine site working: General understanding of transporting material within mine, cleaning the area to build temporary road loading and unloading. Become well versed with Environment Health & Safety: Well versed with I and safety measures in terms of personal safety and equipment safety relevation. Identify and use basic tools, equipment & materials: Effectively identify, so use the specified tools relevant to helper work. 			





This course encompasses <u>4</u> out of <u>4</u> National Occupational Standards (NOS) of "<u>Helper</u>" Qualification Pack issued by "<u>SSC: Skill Council for Mining Sector</u>".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 05:00 Corresponding NOS Code Bridge Module	 Understanding of transporting material within mine Basic understanding of signs in mine area Basic understanding of cleaning area to build temporary roads, loading and unloading. 	bucket loader, front loader, front-end loader, pay-loader, scoop, shovel, skip loader, or wheel loader
2.	Material Handling Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 45:00 Corresponding NOS Code MIN/N 0201	 Basic understanding of performing material handling activities in the mining area Loading and unloading of material. Perform physically strenuous work such as manual lifting and dumping Signage, mining area signs and other safety and emergency signals General safety Rules Using Personal protective equipment like safety Harness, helmet, gloves, goggles, earplugs, nose mask etc. and their application under different working conditions. Various safety procedures and methods like barricading of work place, signage, safety drills, and evacuation Procedures etc. 	Sample Helmet, gloves, harness, earplugs, goggles, node mask.
3.	Assisting trained operator, spotting Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 60:00 Corresponding NOS Code MIN/N 0202	 Assisting a trained operator in a specified task. Assisting a trained technician in installing, dismantling or dispatching a machine. Work with nuts, bolts and basic clamping procedure Comprehend and follow instructions given by the operator Use ropes, slings and tools to lift and align machine parts Select and use appropriate tools and tackles Observe a designated process maintaining alert look-out for deviations. Inform supervisor /operator of problems that are beyond his scope. 	brick hammer, drill machine, gloves, Industrial workers helmet, Signage, poster on road traffic, rules & signs in mining, Safety poster on accidents, fire & environmental disasters, Fire extinguishers, Cradle, Paddling , Shovel, Safety jackets, Gloves, Safety shoes, Torch.





Sr. No.	Module	Key Learning Outcomes	Equipment Required		
4.	Health & Safety Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 15:00	 about performing any cleaning activities in the mining area Cleaning of the surface before constructing a temporary road Housekeeping of the mining premises Signage, mining area signs and other safety and emergency signals 			
	Corresponding NOS Code MIN/N 0202	 Traffic rules followed inside the mining yard. Movement of men in open cast mines Response to emergencies e.g. correct way to use fire extinguisher 			
5.	Cleaning of machine & workplace Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 15:00 Corresponding NOS Code MIN/N 0202	 This unit is about health and safety measures critical in open-cast mines Health and safety measures critical for personnel working in open-cast mines Comply with occupational health and safety regulations adopted by the employer. Follow mining operations procedures with respect to materials handling and accidents. Adhere to the safety guidelines specified by Directorate General of Mine Safety (DGMS)). 	Gloves, Safety shoes, Safety goggles, Safety helmet, Fire extinguisher, Types of log book, First Aid box		
	Total Duration Theory Duration (hh:mm) 60:00 Practical Duration (hh:mm) 140:00	Unique Equipment Required: brick hammer, drill machine, gloves, Industrial workers helmet, Signa on road traffic, rules & signs in mining, Safety poster on accidents, fir environmental disasters, Fire extinguishers, Cradle, Paddling , Shove jackets, Gloves, Safety shoes, Torch			

Grand Total Course Duration: 200 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by <u>SSC: Skill Council for Mining Sector</u>)





Trainer Prerequisites for Job role: "Helper" mapped to Qualification Pack: "MIN/Q0201"

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack <u>"MIN/Q0201"</u> .
2	Personal Attributes	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	None. Basic counting skills and numeracy. Technical and gallery training as per first schedule, Mining Vocational Training Rules (MVTR) 1966.
4a	Domain Certification	Certified for Job Role: " <u>Helper</u> " mapped to QP: <u>"MIN/Q0201"</u> . Minimum accepted score for domain certification will be 85%.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "SSC/Q1402".Minimum accepted score for platform certification will be 90%.
5	Experience	Heavy Commercial Vehicle Driving License. Technical and gallery training as per first schedule, Mining Vocational Training Rules (MVTR) 1966 suggested but not mandatory.





Annexure: Assessment Criteria

Assessment Criteria for Helper	
Job Role	Helper
Qualification Pack	MIN/Q0201
Sector Skill Council	Mining

Sr. No.	Guidelines for Assessment
1	Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2	The assessment of the theory/knowledge will be based on written test/viva-voce or both while skill test shall be hands on practical. Behaviour and attitude will be assessed while performing the task.
3	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
5	To pass the Qualification Pack , every trainee should score a minimum of 70% in skills, 30 % in knowledge and 70% in practical including Behaviour separately in each attributes.
6	In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.





					Marks Allocation	
Assessment Outcome	Assessment Criteria	Total Mark (100)	Out Of	Theory	Skills Practical	
	PC1. Adhere to time limits given by supervisor		2	0	2	
	PC2. Bail, Line pack and transport material	25	2	0	2	
	PC3. Follow the traffic rules and area restrictions within the mining area		2	1	1	
	PC4. Perform physically strenuous work such as manual lifting and dumping		3	0	3	
	PC5. Select and use appropriate tools and tackles.		2	1	1	
1. MIN/N 0201 (Material	PC6. Keep counts and stack material as instructed		2	1	1	
handling)	PC7. Visually sort, sift and create separate piles from the mineral rejects		2	1	1	
	PC8. Inform supervisor of problems that are beyond scope of his role		2	1	1	
	PC9. Comply with health and safety regulations adopted by the employer		2	1	1	
	PC10. Follow mining operations procedures with respect to materials handling and accidents		2	1	1	
	PC11. Follow the correct safety steps in case of fire, accident, major failure		2	1	1	
	PC12. Work responsibly and as safe and careful as possible so as not to put the health and safety of self or others at risk.		2	0	2	
		Total	25	7	18	
2. MIN/N 0202 (Assisting	PC1. Work with nuts, bolts and basic clamping procedure		3	1	2	
trained operators, Spotting)	PC2. Comprehend and follow instructions given by the operator		2	0	2	
	PC3. Use ropes, slings and tools to lift and align machine parts		3	1	2	
	PC4. Select and use appropriate tools and tackles	25	3	1	2	
	PC5. Observe a designated process maintaining alert look-out for deviations.		2	0	2	
	PC6. Inform supervisor /operator of problems that are beyond his scope.		2	1	1	
	PC7. Comply with health and safety regulations adopted by the employer		2	1	1	





				Marks Allocation	
Assessment Outcome	Assessment Criteria	Total Mark (100)	Out Of	Theory	Skills Practical
	PC8. Follow mining safety procedures with respect to accidents		2	1	1
	PC9. Observe general safety when handling hot or moving machine parts.		2	1	1
	PC10. Follow the correct safety steps in case of fire, accident, major failure		2	1	1
	PC11. Work responsibly and as safe and careful as possible so as not to put the health and safety of self or others at risk.		2	0	2
		Total	25	8	17
3. MIN/N 0203	PC1. Adhere to time limits given by supervisor		2	0	2
(Cleaning)	PC2. Ensure that pebbles and rocks are completely cleared from the path.	25	2	0	2
	PC3. Loading of collected waste in vehicles		2	0	2
	PC4. Ballasting of haulage track		2	0	2
	PC5. Inform supervisor of issues that are beyond scope of his role		2	1	1
	PC6. General cleaning and housekeeping of mining premises / garden		2	1	1
	PC7. Ensure that removed waste is disposed in the right place		3	1	2
	PC8. Comply with health and safety regulations adopted by the employer		2	1	1
	PC9. Follow the traffic rules and area restrictions within the mining area		2	1	1
	PC10. Follow mining operations procedures with respect to materials handling and accidents		2	1	1
	PC11. Follow the correct safety steps in case of fire, accident, major failure		2	1	1
	PC12. Work responsibly and as safe and careful as possible so as not to put the health and safety of self or others at risk.		2	0	2
		Total	25	7	18
4. MIN/N 0204 (Health and	PC1. Comply with safety regulations and procedures in case of fire hazard.	25	5	3	2





				Marks Allocation	
Assessment Outcome	Assessment Criteria	Total Mark (100)	Out Of	Theory	Skills Practical
Safety)	PC2. Operate various grades of fire extinguishers.		5	2	3
	PC3. Work responsibly and as safe and careful as possible so as not to put the health and safety of self or others at risk.		5	0	5
	PC4. Identify characteristics of post-blast fumes and take necessary precautions.		5	3	2
	PC5. Wears safety gear such as hard hat, respiratory protection, eye protection, ear protection		5	0	5
		Total	25	8	17
	QP Total		100	30	70







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