

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR MINING INDUSTRY

What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

Contact Us:

FIMI House, B-311,
Okhla Ind. Area Ph-I,
New Delhi-110020
011-26814596

E-mail:
scms@skillcms.in



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Introduction

Qualifications Pack – Sprinkler and Other Vehicle Driver

SECTOR: MINING

SUB-SECTOR: Industrial Minerals

OCCUPATION: Ancillary services

REFERENCE ID: MIN/Q 0409

ALIGNED TO: NCO-2004/7111.78

Brief Job Description: Sprinkler and Other Vehicle Driver in mining industry is an ancillary job role. The individual assigned this role could be driving a sprinkler truck to control dust on a haul-road or could be driving mining personnel in an SUV or any other small truck used to haul material. Besides knowledge of driving fundamentals, the role requires the individual to know and understand the basic of mining operations, traffic rules to be followed in the mining area and safety guidelines for mining operations prescribed by DGMS.

Vehicle drivers are also responsible for performing basic maintenance on the vehicle and to ensure that the safety systems in the vehicle are functional.

Personal Attributes: This job requires the individual to concentrate on the task and complete it without any accidents so diligence is a desired attribute for individuals in this role. The individual should be skilled in performing various driving and maneuvering operations with the Vehicle. He must be able to follow instructions provided by supervisor.

Qualifications Pack Code	MIN /Q 0409		
Job Role	Sprinkler and Other Vehicle Driver This job role is applicable in both national and international scenarios		
Credits(NVEQF/NVQF/NSQF)	Level 4	Version number	1.0
OPTIONAL Sector	Mining	Drafted on	01/02/2014
Sub-sector	Industrial Minerals	Last reviewed on	24/03/2014
Occupation	Ancillary services	Next review date	24/03/2015

Job Role	Sprinkler and other Vehicle Driver
Role Description	Driving men/material in a medium /light vehicle
NVEQF/NVQF level	Level 4
Minimum Educational Qualifications*	Class VIII
Training (mandatory)	<ol style="list-style-type: none"> 1. Technical and gallery training as per first schedule, Mining Vocational Training Rules (MVTR) 1966. 2. Refresher training if absent from mining work for a continuous period of one year or more before re-employment. 3. Must be trained for driving and must have Heavy Commercial Vehicle Driving License
Experience	No experience necessary
Applicable National Occupational Standards (NOS)	Compulsory: <ol style="list-style-type: none"> 1. MIN/N 0428 (Prepare Vehicle) 2. MIN/N 0429 (Perform Vehicle Operations) 3. MIN/N 0430 (Perform basic maintenance on Vehicle) 4. MIN/N 0431 (Carry Out Reporting and Logging) 5. MIN/N 0901 (Health and Safety)
Performance Criteria	As described in the relevant OS units

Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
OS	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
NOS	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Qualifications Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Unit Code	Unit Code is a unique identifier for an Occupational Standard , which is denoted by an 'N'.
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.

Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS , these include communication related skills that are applicable to most job roles.



National Occupational Standard



Overview

This unit is about preparing the Vehicle before driving it for tasks assigned to be carried out during a shift

Unit Code		MIN/N 0428
Unit Title (Task)		Prepare Vehicle
Description	This unit is about preparing the Vehicle before driving it for tasks assigned to be carried out during a shift	
Scope	This OS unit/task covers the following: <ol style="list-style-type: none"> 1. Conducting pre-operation checks to ensure the Vehicle is safe to use. 2. Recording details of checking and maintenance 	
Performance Criteria (PC) w.r.t. the Scope		
Element	Performance Criteria	
Pre-operation Checks	To be competent, the user/individual on the job must be able to: PC1. Check the vehicle for any visible fluid leaks such as oil, fuel, coolant PC2. Check the air pressure and treads of all wheels PC3. Check oil levels of engine, transmission, radiator coolant and brake PC4. Check and clean the windshield and mirrors for safe driving PC5. Check condition of parking brake, main brakes, horn and lights. PC6. Follow the manufacturer’s instructions which apply to the care and safe operation of the vehicle he has to drive. PC7. Follow the correct safety steps in case of fire, accident or vehicle failure	
	Recording Details	PC8. Complete a pre-operation check list to record all activities performed before starting the Vehicle
Knowledge and Understanding (K)		
A. Regulatory context (knowledge of safety guidelines specified by Director General of Mine Safety (DGMS))	The user/individual on the job needs to know and understand: KA1. Different types of mines and detail of the mine he is working in KA2. Mine Organisation, time keeping, need for discipline and punctuality KA3. Benching in quarries, Dressing of overhangs, undercuts, Fencing, First aid and Hygiene KA4. Code of traffic in specific areas of mine. Significance of fences KA5. Standing orders in force at the mine. Safety in the vicinity of machinery KA6. Shot-firing and Safety regulations. How and where to take shelter KA7. Tramways and siding, Haulage rooms, Winding rooms, Boilers, Electrical Gears KA8. Duties of workmen under Mines act KA9. Provision of compensation and working hours as per Mines act	

	<p>KA10. Knowledge of mining safety procedures</p> <p>KA11. Outcome of violation of safely procedures</p> <p>KA12. Refresher training as per fourth schedule MVTR (1966) within one month of joining duties following absence from duties for a period exceeding one year.</p>
<p>B. Organizational Context (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. Job specific documents e.g. daily maintenance checklist and importance of the same</p> <p>KB2. Locally prepared emergency response/disaster management plan</p> <p>KB3. Risk and impact of not following defined procedures/work instructions</p> <p>KB4. Escalation matrix for reporting identified problems</p> <p>KB5. Cost of equipment and loss for the company that results from damage of equipment</p> <p>KB6. Cost (direct/indirect) of accidents for the company</p>
<p>C. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KC1. Introduction to engine, transmission, their use and function</p> <p>KC2. Different types of steering mechanisms.</p> <p>KC3. Service brakes and parking brakes</p> <p>KC4. Instrument panel, their location and operation.</p> <p>KC5. Controls, levers and switches in order to operate the Vehicle properly</p> <p>KC6. General safety rules vis-à-vis driving and parking in mines</p> <p>KC7. Signage, mining area signs and other safety and emergency signals</p> <p>KC8. Traffic rules to be followed inside the mining yard. Movement of men in open cast mines</p> <p>KC9. Correct maintenance procedures for Vehicle</p> <p>KC10. Response to emergencies e.g. correct way to use fire extinguisher</p> <p>KC11. Optimal oil level of engine, transmission, etc.</p> <p>KC12. Optimal engine oil pressure, radiator coolant temperature</p>
<p>Skills</p>	
	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. Fill out check-list /maintenance logbooks detailing maintenance activities conducted</p>

	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA3. Read operators' manual
	SA4. Read and understand checking/maintenance logbook
	SA5. Read and comprehend banners /signage
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA6. Communicate with supervisors and peers in a proper manner adhering to the values of respect for individual
	Integrity
	The user/individual on the job needs to know and understand how to:
	SA7. Maintain integrity with respect to company property and time
	SA8. Communicate with people in a polite manner using respectful language
	SA9. Resolve difficulties in relationships with colleagues amicably
	Motivation
The user/individual on the job needs to know and understand how to:	
SA10. Take responsibility for completing one's own work assignment	
SA11. Take initiative to enhance/learn skills in one's area of work	
Reliability	
The user/individual on the job needs to know and understand how to:	
SA12. Avoid absenteeism	
SA13. Work in a disciplined environment	
SA14. Be punctual	
B. Professional Skills	Time Management
	SB1. The user/individual on the job needs to know and understand how to: Prioritize and execute tasks within the scheduled time
	Fault Diagnostic and Maintenance
	The user/individual on the job needs to know and understand how to:
	SB2. Check for damage in vehicle components e.g. engine components, brakes, horn
	SB3. Operator should be able to read machine fault codes.

NOS Version Control

NOS Code	MIN/N 0428		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Sector	Mining	Drafted on	01/02/2014
Sub-sector	Industrial Minerals	Last reviewed on	24/03/2014
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National Occupational Standard



Overview

This unit is about performing operations while driving the vehicle

Unit Code	MIN/N 0429
Unit Title(Task)	Perform Vehicle Operations
Description	This unit is about driving and operating the Vehicle
Scope	<p>This OS unit/task covers the following:</p> <ol style="list-style-type: none"> 1. Starting and driving the Vehicle safely. 2. Performing the assigned task effectively. 3. Parking the vehicle in a safe manner post completion of the task / shift.
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria
Start the vehicle	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Plan and organize the job according to given instructions</p> <p>PC2. Inspect the worksite to identify any loose soil, hidden deep trenches or marshy patches where Vehicle could get stuck.</p> <p>PC3. Check that the gear level is neutral and start the engine using the key to turn on the ignition.</p> <p>PC4. Decide the correct gear needed for operation and use the clutch pedal and gear shift lever to engage the right gear.</p>
Drive and perform operations	<p>PC5. Select and use the right type of brake in different situations and conditions.</p> <p>PC6. Look out for people working and hazards such as trenches and cables</p> <p>PC7. Ensure vehicle load and operating speed is within limits specified by OEM.</p> <p>PC8. Perform in-operation visual checks on critical gauges.</p> <p>PC9. Maintain safe following distance from other vehicles ahead of him.</p> <p>PC10. Drive through various turns, intersections and gradients at the right speed and following the traffic rules.</p> <p>PC11. Demonstrate smooth and efficient gear changing and gear selection.</p> <p>PC12. Demonstrate lane driving and lane changing etiquette</p> <p>PC13. Demonstrate overtaking and give way rules</p>
Park the vehicle	<p>PC14. Slow, stop and secure the vehicle at a suitable location in a safe manner.</p> <p>PC15. Demonstrate the ability to reverse the vehicle in straight line and to one side.</p> <p>PC16. Ensure that Vehicle is always parked on firm, level ground; with handbrake applied and drive and controls disengaged</p>

Knowledge and Understanding (K)	
<p>A. Regulatory context (knowledge of safety guidelines specified by Director General of Mine Safety (DGMS))</p>	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> KA1. Different types of mines and detail of the mine he is working in KA2. Mine Organisation, time keeping, need for discipline and punctuality KA3. Benching in quarries, Dressing of overhangs, undercuts, Fencing, First aid and Hygiene KA4. Code of traffic in specific areas of mine. Significance of fences KA5. Standing orders in force at the mine. Safety in the vicinity of machinery KA6. Shot-firing and Safety regulations. How and where to take shelter KA7. Tramways and siding, Haulage rooms, Winding rooms, Boilers, Electrical Gears KA8. Duties of workmen under Mines act KA9. Provision of compensation and working hours as per Mines act KA10. Knowledge of mining safety procedures KA11. Outcome of violation of safety procedures KA12. Refresher training as per fourth schedule MVTR (1966) within one month of joining duties following absence from duties for a period exceeding one year.
<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> KB1. Different types of light and medium Vehicles, their functions and capacities KB2. Basics of engine and transmission - use and function KB3. Different types of steering mechanism, emergency steering function KB4. Identification, location and function of all controls available in the instrument panel. KB5. Safe reading range of meters and gauges e.g. fuel gauge, engine oil pressure and temperature KB6. General safety guidelines for loading, hauling and parking in a mine. KB7. Signage, factory signs and other safety and emergency signals KB8. Response to emergencies e.g. fire KB9. Cause of any unusual sound emanating from the engine
Skills (S)	
<p>A. Core Skills/</p>	<p style="background-color: #d9e1f2;">Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none"> SA1. Read and adhere to signage as per standard mining nomenclature SA2. Read and understand manuals and safety instructions SA3. Read from different sources - books, screen displays and signage

B. Professional Skills	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. Communicate with supervisors and peers in a proper manner adhering to the values of respect for individual
	Integrity
	The user/individual on the job needs to know and understand how to: SA6. Maintain integrity with respect to company property and time SA7. Resolve any difficulties in relationships with colleagues amicably
	Motivation
	The user/individual on the job needs to know and understand how to: SA8. Take responsibility for completing one's own work assignment SA9. Take initiative to enhance/learn skills in one's area of work. SA10. Reflect and act upon one's learning from experience
	Reliability
	The user/individual on the job needs to know and understand how to: SA11. Avoid absenteeism SA12. Work in a disciplined environment
	Time Management
	The user/individual on the job needs to know and understand how to: SB1. Prioritize and execute tasks within the scheduled time limits
	Vehicle operations
	The user/individual on the job needs to know and understand how to: SB2. Perform driving operations such as forward, reverse, 'U' turn, tight spot maneuvering, etc. SB3. Select and use the correct combination of levers to operate the Vehicle.
Fault Diagnostic and Maintenance	
The user/individual on the job needs to know and understand how to: SB4. Check for damage in Vehicle components e.g. engine components, parking break, main horn, etc.	

NOS Version Control

NOS Code	MIN/N 0429		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
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Sub-sector	Industrial Minerals	Last reviewed on	24/03/2014
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National Occupational Standard



Overview

This unit is about performing routine maintenance and troubleshooting on the Vehicle

Code	MIN/N 0430
Unit Title (Task)	Perform routine maintenance and troubleshooting on the Vehicle
Description	This unit is about performing routine maintenance and troubleshooting tasks on the Vehicle
Scope	<p>This OS unit/task covers the following:</p> <ol style="list-style-type: none"> 1. Preventive maintenance of vehicle in accordance with the manufacturer's recommendations and company procedures 2. Basic diagnostics and Troubleshooting
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria
Preventive maintenance	<p>To be a competent vehicle driver, the individual on the job must also be able to:</p> <p>PC1. Track vehicle operating hours to assess the right service schedule.</p> <p>PC2. Clean air filter dust bowls</p> <p>PC3. Clean footplates, pedals and steps free from mud, dirt, ice and snow</p> <p>PC4. Drain water and sediment /fuel separators</p> <p>PC5. Replenish coolants, lubricants and fluids</p> <p>PC6. Grease all greasing pins and pivot points</p> <p>PC7. Check battery levels and condition of the terminals and carry out minor adjustments if required.</p> <p>PC8. Check and maintain the tyre rims, air pressure, wheel nuts and treads.</p> <p>PC9. Complete timely and legibly daily/weekly maintenance/defect sheets as provided</p>
Troubleshooting	<p>PC10. Ensure the parking brake and indicators are used to prevent any accident</p> <p>PC11. Ensure the machine is on firm and level ground before attempting to carry out any checking.</p> <p>PC12. Ensure that no maintenance task on the engine is performed when running or still hot.</p> <p>PC13. Check and identify out-of-range readings on the instrument panel and various control gauges to detect possible cause of failure.</p> <p>PC14. Assess when the problem is beyond his competence and report the problem to suitably qualified and competent personnel</p>

Knowledge and Understanding (K)	
<p>A. Regulatory context (knowledge of safety guidelines specified by Director General of Mine Safety (DGMS))</p>	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> KA1. Different types of mines and detail of the mine he is working in KA2. Mine Organisation, time keeping, need for discipline and punctuality KA3. Benching in quarries, Dressing of overhangs, undercuts, fencing KA4. First aid and Hygiene KA5. Code of traffic in specific areas of mine. Significance of fences KA6. Standing orders in force at the mine. Safety in the vicinity of machinery KA7. Shot-firing and Safety regulations. How and where to take shelter KA8. Tramways and siding, Haulage rooms, Winding rooms, Boilers, Electrical Gears KA9. Duties of workmen under Mines act KA10. Provision of compensation and working hours as per Mines act KA11. Knowledge of mining safety procedures KA12. Outcome of violation of safely procedures KA13. Refresher training as per fourth schedule MVTR (1966) within one month of joining duties following absence from duties for a period exceeding one year.
<p>B. Organizational Context (Knowledge of the organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> KB1. Types of documentation in organization e.g. preventive maintenance checklist and importance of the same KB2. Job specific documents e.g. daily maintenance checklist and importance of the same KB3. Locally prepared emergency response/disaster management plan KB4. Risk and impact of not following defined procedures/work instructions KB5. Escalation matrix for reporting identified problems KB6. Cost of equipment and loss for the company that results from damage of equipment KB7. Cost (direct/indirect) of accidents for the company
<p>C. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> KC1. Basic physics and mechanics involved in various functions of the Vehicle. KC2. Preventive maintenance schedule prescribed for the vehicle he uses. KC3. Response to emergencies e.g. fire KC4. Safety regulations while handling the Vehicle KC5. The optimal levels of control indicators e.g. fuel gauge, engine oil pressure and temperature, air pressure etc.

	<p>KC6. Procedure to check and adjust belts for tightness and excessive wear. The optimal "give" the belts should have when adjusted correctly</p> <p>KC7. Visual checks to identify damage, defects, cracks, or leaks beforehand</p> <p>KC8. Possible sources of any unusual sound emanating from the engine</p>
Skills (S)	
A. Core Skills/ Generic Skills	Reading Skills
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA1. Read schedule given by supervisor</p> <p>SA2. Read preventive maintenance manuals</p>
	Oral Communication (Listening and Speaking skills)
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. Communicate with supervisors and peers in a proper manner adhering to the values of respect for individual</p>
	Integrity
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA5. Maintain integrity with respect to company property and time</p> <p>SA6. Resolve any difficulties in relationships with colleagues amicably.</p>
	Motivation
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA7. Take responsibility for completing one's own work assignment</p> <p>SA8. Take initiative to enhance/learn skills in one's area of work</p>
	Reliability
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA9. Avoid absenteeism</p> <p>SA10. Be punctual</p> <p>SA11. Work in a disciplined manner</p>
	<p>Time Management</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. Prioritize and execute tasks within the scheduled time limits</p>
	<p>Fault Diagnostic and Maintenance</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB2. Read and understand machine fault codes</p> <p>SB3. Isolate and identify the faulty component causing unusual noise or behavior</p> <p>SB4. Replace faulty lights, fuses, wheel etc. using available spares</p>

NOS Version Control

NOS Code	MIN/N 0430		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Sector	Mining	Drafted on	01/02/14
Sub-sector	Industrial Minerals	Last reviewed on	24/03/14
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National Occupational Standard



Overview

This unit is about reporting and documentation

Unit Code		MIN/N 0431
Unit ID (Task)		Carry out reporting and documentation
Description	This unit is about carrying out reporting and documentation	
Scope	This unit/task covers the following: <ol style="list-style-type: none"> 1. Reporting of problem/incidents etc. 2. Documentation 	
Performance Criteria (PC) w.r.t. the Scope		
Element	Performance Criteria	
Reporting	To be competent, the user/individual on the job must be able to: <ul style="list-style-type: none"> PC1. Report problems/incidents in a timely manner PC2. Follow reporting procedures as prescribed by the employer 	
Recording and Documentation	<ul style="list-style-type: none"> PC3. Identify documentation to be completed in one's role PC4. Record details accurately using the appropriate format PC5. Complete all documentation within stipulated time. PC6. Ensure documents are available to appropriate authorities to inspect 	
Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the organization processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> KA1. Various documents that need to be maintained KA2. Company recommended schedule for filling up the documents KA3. The importance of complete and accurate documentation KA4. Procedures for reporting to the appropriate authority KA5. Guidelines for reporting incidents where standard operating procedures were not followed in specific instances. 	
Skills (S)		
A. Core Skills/ Generic Skills	Writing Skills	
	The user/ individual on the job needs to know and understand how to: <ul style="list-style-type: none"> SA1. Fill up documentation applicable to one's role 	
	Reading Skills	
		The user/individual on the job needs to know and understand how to: <ul style="list-style-type: none"> SA2. Read and understand manuals, memos and health and safety instructions

	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA3. Respond appropriately to any queries SA4. Communicate with supervisor



NOS Version Control

NOS Code	MIN/N 0431		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	Level 4	Version number	1.0
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National Occupation Standards



Overview

This unit is about health and safety measures critical in open-cast mines

Unit Code	MIN/N 0901
Unit Title (Task)	Health and Safety
Description	This unit is about health and safety measures critical in open-cast mines
Scope	This OS unit/task covers the following: <ol style="list-style-type: none"> 1. Health and safety measures critical for personnel in open-cast mines
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria
Safety, Security and Administrative	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Comply with occupational health and safety regulations adopted by the employer.</p> <p>PC2. Follow mining operations procedures with respect to materials handling and accidents</p> <p>PC3. Follow the correct safety steps in case of fire, accident, major failure</p> <p>PC4. Work responsibly and carefully so as not to put the health and safety of self or others at risk.</p> <p>PC5. Perform storage and transport of hazardous materials compliant with safety guidelines prescribed by DGMS.</p> <p>PC6. Comply with safety regulations and procedures in case of fire hazard.</p> <p>PC7. Operate various grades of fire extinguishers.</p> <p>PC8. Work responsibly and as safe and careful as possible so as not to put the health and safety of self or others at risk, including members of the public</p> <p>PC9. Demonstrate careful practices in handling explosives and heavy machinery.</p> <p>PC10. Identify characteristics of post-blast fumes and take necessary precautions.</p>

Knowledge and Understanding (K)

A. Regulatory

context (knowledge of safety guidelines specified by Director General of Mine Safety (DGMS))

The user/individual on the job needs to know and understand:

- KA1. Benching in quarries, Dressing of overhangs, undercuts, fencing
- KA2. First aid and hygiene
- KA3. Code of practice in specific areas of mine. Significance of fences
- KA4. Standing orders in force at the mine. Safety in the vicinity of machinery
- KA5. Shot-firing and Safety regulations. How and where to take shelter
- KA6. Knowledge of mining safety procedures
- KA7. Outcome of violation of safety procedures
- KA8. Locally prepared Emergency Preparedness / Disaster Management Plan.
- KA9. Environmental impact of mining
- KA10. Sources of dust, noise and vibration and measures to minimise
- KA11. Hazardous material safety and security rules and regulations as prescribed by DGMS

NOS Version Control

NOS Code	MIN / N 0901		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Sector	Mining	Drafted on	01/02/14
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List of Abbreviations

Term	Description
NOS	National occupation standards
QP	Qualification pack
NVEQF	National vocational education qualifications framework
NSQF	National skills qualifications framework
HEMM	Heavy earth moving machinery
NCVT	National council for vocational training
DGMS	Directorate general of mines safety
PC	Performance Criteria
FIMI	Federation of Indian mineral industries

