



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
- performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction

Qualifications Pack - Wire saw Operator

SECTOR: MINING

SUB-SECTOR: Industrial Minerals

OCCUPATION: Mining/Quarrying operations

REFERENCE ID: MIN/Q 0410

ALIGNED TO: NCO-2004/8111.90

Brief Job Description: A Wire saw operator operates a Wire saw machine which is used to cut large blocks of stone out from the marble quarry. Wire saws are large machines that use diamond-impregnated beads on a cable to cut through marble, granite and other similar rocks. Wire saw is also used for squaring of the cut slab into square shaped blocks before transporting to the production plant. Operating a Wire saw is a specialized task that can be safely performed only with adequate training and experience. Wire saw operators are also responsible to ensure basic upkeep of the machine and safety in operations.

Personal Attributes: This job requires the individual to concentrate on the job at hand and complete it effectively and efficiently without any accidents so diligence, attentiveness, quick reflexes and hard-working are some of the desired attributes for individuals performing this role. He must also demonstrate strong work ethics and an ability to communicate courteously with co-workers and the supervisor.





Qualifications Pack Code	MIN/Q 0410		
	Wire saw Operator		
Job Role	This job role is applicable in both national and international scenarios		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	Level 4	Version number	1.0
Sector	Mining	Drafted on	01/02/2014
Sub-sector	Industrial Minerals	Last reviewed on	24/03/2014
Occupation	Mining/Quarrying operations	Next review date	24/03/2015

Job Role	Wire saw Operator	
Role Description	Drives and operates a Wire saw machine which is a large machine used to cut large blocks of stone out from the marble	
NVEQF/NVQF level Minimum Educational Qualifications*	Level 4 Class XII	
Training (mandatory) Experience	 Technical and gallery training as per First schedule, Mining vocational training rules (MVTR 1966) Refresher training if absent from mines for a period of one year or more before re-employment Operator training for Wire saw 	
	No experience necessary	
Applicable National Occupational	 Compulsory: MIN/N 0432(<u>Prepare Wire saw</u>) MIN/N 0433 (<u>Perform Wire saw Operations</u>) MIN/N 0434 (<u>Carry Out Reporting and Logging</u>) 	
Standards (NOS)	4. MIN/N 0901 (Health and Safety)	
Performance Criteria	As described in the relevant OS units	



Qualifications Pack For Wire Saw Operator



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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 Wire saw for activities that need to be carried out during a shift



Nutional Occupational Standards MIN/N 0432 Prepare Wire saw



Unit Code	MIN/N 0432	
Unit Title(Task)	Prepare Wire saw	
Description	This unit is about preparing the Wire saw for activities that need to be carried out during a shift	
Scope Performance Criteria	This OS unit/task covers the following: 1. Conducting pre-operation checks to ensure the Wire saw is safe to use. 2. Recording details of daily checks a (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. Adhere to time limits given by supervisor PC2. Check the various controls, gauges, warning lamp and other safety devices PC3. Ensure that crown blocks are mounted securely PC4. Check all hose connections are in order, if using a compress air Wire saw PC5. Check that Wire sawing equipment is in safe operating condition. PC6. Apply grease to all greasing pins and pivot points PC7. The Wire sawing site is clear of other mine workers to avoid any accidents. PC8. Follow the manufacturer's instructions which apply to the care and safe operation of the Wire saw.	
Recording and Reporting	PC9. Maintain a checking/maintenance logbook to record all activities performed before starting the Wire saw PC10. Inform supervisor of problems that are beyond scope of his role	



National Occupational Standards MIN/N 0432 Prepare Wire saw



Knowledge and Understanding (K)			
A. Regulatory	The user/individual on the job needs to know and understand:		
context	KA1. Different types of mines and detail of the mine he is working in		
(knowledge of	KA2. Mine Organisation, time keeping, need for discipline and punctuality		
safety guidelines	KA3. Benching in quarries, Dressing of overhangs, undercuts, Fencing, First aid and		
specified by	Hygiene		
Director General	KA4. Code of traffic in specific areas of mine. Significance of fences		
of Mine Safety	KA5. Standing orders in force at the mine. Safety in the vicinity of machinery		
(DGMS))	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 wages, working hours and accident compensation as per Mines act		
	KA10. Knowledge of mining safety procedures		
	KA11. Outcome of violation of safely procedures		
	KA12. Precautions to be taken when handling heavy equipment		
	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.		
B. Organizational	The user/individual on the job needs to know and understand:		
Context	KB1. Job specific documents e.g. daily maintenance checklist and importance of		
(Knowledge of	the same		
organization	KB2. Risk and impact of not following defined procedures/work instructions		
processes)	KB3. Escalation matrix for reporting identified problems		
	KB4. Cost of equipment and loss for the company that results from damage of		
	equipment		
	KB5. Implications of delays in process to the company		
C. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KC1. Different types of Wire saws and their specific use		
	KC2. Specification and details of blast hole Wire saws used in open-cast mines		
	KC3. Instrument panel, various controls their location and operation		
	KC4. Lubrication of Wire saws		
	KC5. Various levers and switches in order to operate the Wire saw properly		
	KC6. Different types of Wire saw bits and their uses		
	KC7. Common terminology vis-à-vis Wire sawing		
	KC8. Routine checks essential before starting Wire saw operations		



National Occupational Standards MIN/N 0432 Prepare Wire saw



Skills	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Fill out check-list /activity logbooks detailing maintenance activities conducted
	SA2. Fill out administrative forms
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA3. Read operators' manual
	SA4. Read and understand pre-operation checklist/ activity 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:
	SA1. Communicate with supervisors and peers in a polite manner using respectable
A. Core Skills/	language.
Generic Skills	DE A Park I THE T
Generic Skiiis	Integrity The user/individual on the job needs to know and understand how to:
	(4)
	SA2. Maintain integrity with respect to company property and time
•	SA3. Resolve difficulties in relationships with colleagues amicably. Motivation
	The user/individual on the job needs to know and understand how to:
	SA4. Take responsibility for completing one's own work assignment
	SA5. Take initiative to enhance/learn skills in one's area of work
	100 Y /
	Reliability The user/individual on the job needs to know and understand how to:
	SA6. Avoid absenteeism
	SA8. Be punctual 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
	Analytical Thinking
	The user/individual on the job should be able to:
	SB2. Suggest methods to avoid accidents/errors while operating Wire saw
B. Professional Skills	SB3. Identify possible ways to improve operational efficiency
	Organizational Skills
	The user/individual on the job needs to know and understand how to:







Fault Diagnostic and Maintenance

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

SB6. Check for damage in Wire saw components e.g various pneumatic parts, compressor, Wire saw bit and mechanical parts









NOS Version Control

NOS Code	MIN/N 0432		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Sector	Mining	Drafted on	28/01/14
Sub-sector	Industrial Minerals	Last reviewed on	24/03/14
Occupation	Mining / quarrying operations	Next review date	24/03/15







National Occupational Standard



Overview

This unit is about performing Wire sawing operation using a rig mounted Wire saw machine





Unit Code	MIN/N 0433
Unit Title(Task)	Perform Wire saw Operations
Description	This unit is about performing Wire sawing operation using a rig mounted Wire saw
	machine
Scope	This OS unit/task covers the following:
	Travelling of the Wire saw by Tramming or Towing
	2. Positioning and mounting the Wire saw
	3. Perform Wire sawing operation.

Performance Criteria (P	C) w.r.t. the Scope		
Element	Performance Criteria		
	To be competent, the user/individual on the job must be able to:		
	PC1. Plan and organize the job according to the site engineer instructions		
	PC2. Organise daily consumables according to the day's plan		
Transporting the wire-	PC3. Operate propelling motor control levers to smoothly move the Wire saw		
saw	machine in all four directions.		
3411	PC4. Ensure all necessary precautions are adhered to before towing the Wire saw to a		
	distant site.		
	PC5. Raise Wire saw guide to 1.5m above ground level and make it horizontal to		
	prevent any damage in transit.		
	PC6. Ensure a stable base for mounting the Wire saw		
Mounting the wire-	PC7. Adjust the tracks by methodically manipulating the positions of oscillation		
saw	cylinder valve and hydraulic track valve.		
	PC8. Have work area barricaded or bunded and erect signage as required to make		
	work area safe.		
	PC9. Ensure that the highest level of quality is consistently maintained		
	PC10. Ensure all associated products (couplings/rods etc) are used to their maximum		
Operate wire-saw	potential, while ensuring their sustainability		
	PC11. Reduce downtime and wastage		
	PC12. Demonstrate caution against hazards of Wire saw machine in operation.		





Knowledge and Understanding (K)			
A. Regulatory	The user/individual on the job needs to know and understand:		
context	KA1. Different types of mines and detail of the mine he is working in		
(knowledge of	KA2. Mine Organisation, time keeping, need for discipline and punctuality		
safety guidelines	KA3. Benching in quarries, Dressing of overhangs, undercuts, Fencing, First aid and		
specified by	Hygiene		
Director General	KA4. Code of traffic in specific areas of mine. Significance of fences		
of Mine Safety	KA5. Standing orders in force at the mine. Safety in the vicinity of machinery		
(DGMS))	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 wages, working hours and accident compensation as per Mines act		
	KA10. Knowledge of mining safety procedures		
	KA11. Outcome of violation of safely procedures		
	KA12. Precautions to be taken when handling heavy equipment		
	KA13. Refresher training as per fourth schedule MVTR (1966) within one month of		
D. Oussuisskiensk	joining duties following absence from duties for a period exceeding one year.		
B. Organizational	The user/individual on the job needs to know and understand:		
Context	KB1. Types of documentation in organization e.g. daily maintenance checklist and		
(Knowledge of the	importance of the same		
organization and	KB2. Risk and impact of not following defined procedures/work instructions		
its processes)	KB3. Rules and regulations of mine as per standard operating procedure (SOP)		
	KB4. Risk and impact of not following company's SOP		
	KB5. Escalation matrix for reporting identified problems		
	KB6. Duties and responsibilities associated with his job role as per the employer		
C. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KC1. Different types of Wire saws and their specific use		
	KC2. Operation of different sub-assemblies such as drive wheel, hydraulic system,		
	power unit, water supply system, wire tensioning arm, wire length		
	adjustment pulley etc.		
	KC3. Specification and details of Diamond Wire saws used in open-cast mines		
	KC4. Instrument panel, various controls their location and operation.		





	Corporation		
C. Technical	KC5. Different types of Wire saws and their specific use		
Knowledge	KC6. Operation of different sub-assemblies such as drive wheel, hydraulic system,		
	power unit, water supply system, wire tensioning arm, wire length		
	adjustment pulley etc.		
	KC7. Specification and details of Diamond Wire saws used in open-cast mines		
	KC8. Instrument panel, various controls their location and operation		
	KC9. Setting up of the saw for various tasks - horizontal, vertical or flush cutting.		
	KC10. Wire sawing pattern and sequence of operations.		
	KC11. Method and significance of twisting the diamond wire before joining connectors.		
	KC12. Mounting of the water supply nozzle for cooling of the wire while cutting		
	KC13. Optimal speed of driving and cutting to ensure best results.		
	KC14. Use of various systems in the remote control unit to control the hydraulic oil		
	flow rate, wire tension control, longitudinal advance control for cutting		
	direction, potentiometer for speed adjustment.		
	KC15. Safety during Wire sawing, marching and other operations		
	KC16. Working area must be cordoned off as flying pieces of rock can be dangerous.		
	KC17. comply with all company Quality, Health, Safety and Environment policies and		
	procedures		
	KC18. Signage, mining area signs and other safety and emergency signals		
	KC19. Response to emergencies such as fire, accident, major failure etc.		
	KC20. Basic maintenance steps such as replacing rubber on the pulleys, cleaning the		
	diamond wire guard and drive wheel guard, keeping grip points free from oil		
	and grease.		
Skills (S)			
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA1. Read schedule given by site engineer		
	SA2. Read operators' manuals		
	Oral Communication (Listening and Speaking skills)		
A. Core Skills/	The user/individual on the job needs to know and understand how to:		
Generic Skills	SA3. Communicate with supervisors and peers in a proper manner using individual		
	values of respect		
	Integrity		





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Wire saw operations

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

- SB8. Drill through holes to insert the diamond wire
- SB9. Operate control levers to safely operate the Wire saw machine.
- SB10. Ensure that the highest level of quality is consistently maintained
- SB11. Ensure that diamond wires, coolants etc. are used to their maximum potential
- SB12. Connect and crimp the diamond wires to ensure the right tension and motion.
- SB13. Arrangements to setup the pulley system to affect horizontal, vertical or flush cuts in the rock.
- SB14. Right alignment of pulleys to ensure minimum wear and reduce the risk of wire jumping off.

Fault Diagnostic and Maintenance

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

SB15. Check for damage in Wire saw components e.g. hydraulic hoses, wire distributor system, various pulleys and the rubber rim, saw head etc.



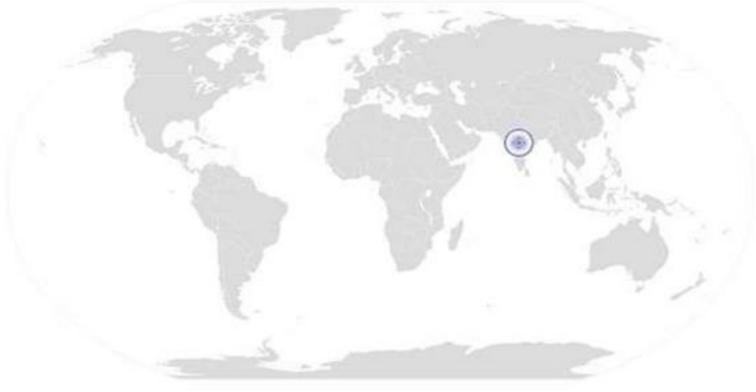




NOS Version Control

NOS Code	MIN/N0433		
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
Occupation	Mining/quarrying operations	Next review date	24/03/15



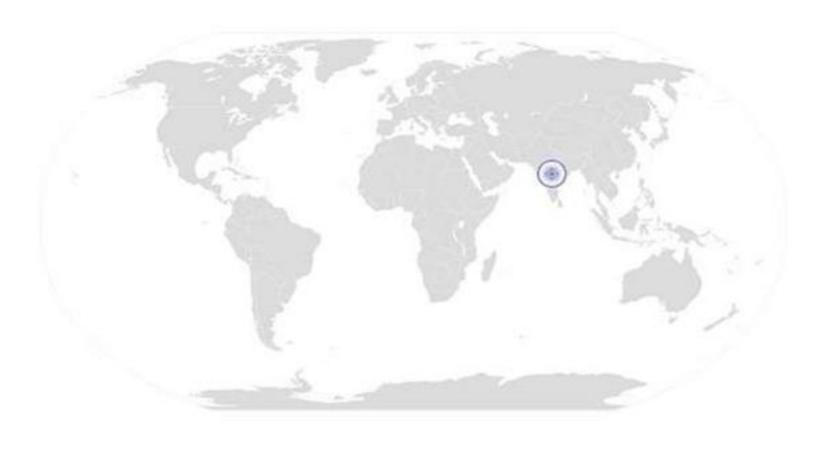








National Occupational Standard



Overview

This unit is about reporting and documentation







MIN/0434 Documentation and Reporting

MIN/N 0434
Carry out reporting and documentation
This unit is about carrying out reporting and documentation
This unit/task covers the following:
1. Reporting of problem/incidents etc.
2. Reporting and Documentation
PC) w.r.t. the Scope
Performance Criteria
To be competent, the user/individual on the job must be able to:
PC1. Report problems/incidents as applicable in a timely manner
PC2. Report to the appropriate authority as laid down by the employer
PC3. Follow reporting procedures as prescribed by the employer
PC4. Identify documentation to be completed relating to one's role PC5. Record details accurately using the appropriate format PC6. Complete all documentation within stipulated time.
anding (K)
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
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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
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 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 wages, working hours and accident compensation as per Mines
 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 wages, working hours and accident compensation as per Mines act
 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 wages, working hours and accident compensation as per Mines





N-S-D-C National Skill Development Corporation

MIN/0434 Documentation and Reporting

B. Organizational	The user/individual on the job needs to know and understand:			
Context	KB1. Types of documentation in organization e.g. daily maintenance checklist			
(Knowledge of the	and importance of the same			
organization and	KB2. Risk and impact of not following defined procedures/work instructions			
its processes)	KB3. Rules and regulations of mine as per standard operating procedure (SOP)			
	KB4. Risk and impact of not following company's SOP			
	KB5. Escalation matrix for reporting identified problems			
	KB6. The duties and responsibilities associated with his job role as per the			
	employer			
Skills (S)				
	Writing Skills			
	The user/ individual on the job needs to know and understand how to:			
	SA1. Fill up documentation applicable to one's role			
	Reading Skills			
	The user/individual on the job needs to know and understand how to:			
	SA2. Read english and/or vernacular language with few pauses and a constant			
	speed			
	SA3. Read and understand manuals, health and safety instructions, memos etc			
A. Core Skills/	SA4. Ability to read from different sources - books, screens in machines,			
Generic Skills	signange etc.			
	SA5. Understand the various color codes, as per standard mining nomenclature			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to:			
	SA6. Express statements or information clearly so that others can hear and			
	understand			
	SA7. Participate in and understand the main points of simple discussions			
	SA8. Respond appropriately to any queries			
	SA9. Communicate with supervisor			







MIN/0434 Documentation and Reporting

NOS Code	MIN/N 0434		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Sector	Mining	Drafted on	01/02/14
Sub-sector	Industrial Minerals	Last reviewed on	24/03/14
Occupation	Mining / quarrying operation	Next review date	24/03/15









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:		
	1. Health and safety measures critical for personnel working in open-cast		
	mines		
Performance Crite	eria (PC) w.r.t. the Scope		
Element	Performance Criteria		
	To be competent, the user/individual on the job must be able to:		
	PC1. Comply with occupational health and safety regulations adopted by the		
	employer.		
	PC2. Follow mining operations procedures with respect to materials handling		
	and accidents		
	PC3. Follow the correct safety steps in case of fire, accident, major failure		
Safety, Security and	PC4. Work responsibly and carefully so as not to put the health and safety of		
Administrative	self or others at risk.		
	PC5. Perform storage and transport of hazardous materials compliant with		
	safety guidelines prescribed by DGMS.		
	PC6. Comply with safety regulations and procedures in case of fire hazard.		
	PC7. Operate various grades of fire extinguishers.		
	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		
	PC9. Demonstrate careful practices in handling explosives and heavy		
	machinery.		
	PC10. Identify characteristics of post-blast fumes and take necessary		
	precautions.		







Knowledge and Understanding (K)			
A. Regulatory context	The user/individual on the job needs to know and understand:		
(knowledge of safety	KA1.	Benching in quarries, Dressing of overhangs, undercuts, fencing	
guidelines specified by	KA2.	First aid and hygiene	
Director General of	KA3.	Code of practice in specific areas of mine. Significance of fences	
Mine Safety (DGMS))	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
Sub-sector	Industrial Minerals	Last reviewed on	24/03/2014
Occupation	Mining /quarrying operations	Next review date	24/03/2015

Back to QP









MIN/Q 0410

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

