

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR MINING INDUSTRY



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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 standard 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- Banksman

SECTOR: MINING

SUB-SECTOR: UNDERGROUND MINES

OCCUPATION: MINING OPERATIONS

REFERENCE ID: MIN/Q 0414

ALIGNED TO: NCO-2004/7111.76

A Banksman ensures safe transport of people and equipment inside the ground catering to the defined compliances

Brief Job Description: The primary role of Banksman entails superintending the lowering and raising of persons, tools and materials and transmitting the signals at the top of a shaft or incline

Personal Attributes: A Banksman needs to excel in ability to plan and prioritize, quality consciousness, safety orientation, reading, writing and communication skills, possess physique to sustain strenuous conditions, ability to use fingers, hands and feet with ease to complete the assigned task (Dexterity), high precision and sensitivity to problem solving and sensitivity towards safety for workers and vehicles

Job Details	Qualifications Pack Code	MIN/ Q 0414		
	Job Role	Banksman		
	Credits(NSQF)	TBD	Version number	1.0
	Industry	Mining	Drafted on	15/12/2014
	Sub-sector	Underground Mines	Last reviewed on	24/03/2015
	Occupation	Mining Operations	Next review date	24/03/2017

Job Role	Banksman
Role Description	To superintend the lowering and raising of persons, tools and materials and to transmit signals at the top of a shaft or incline.
NSQF level	4
Minimum Educational Qualification	Class X
Maximum Educational Qualification	NA
Training (Suggested but not mandatory)	1. Safety 2. Quality Management
Experience	6 months
Applicable National Occupational Standards	Compulsory: Click on the hyperlink to read/download the required NOS 1. MIN/ N 0441 (Pre- Operation Check) 2. MIN/ N 0442 (Operation and Running) 3. MIN / N 0901 (Health and Safety) Optional: Not applicable
Performance Criteria	As described in the relevant OS units

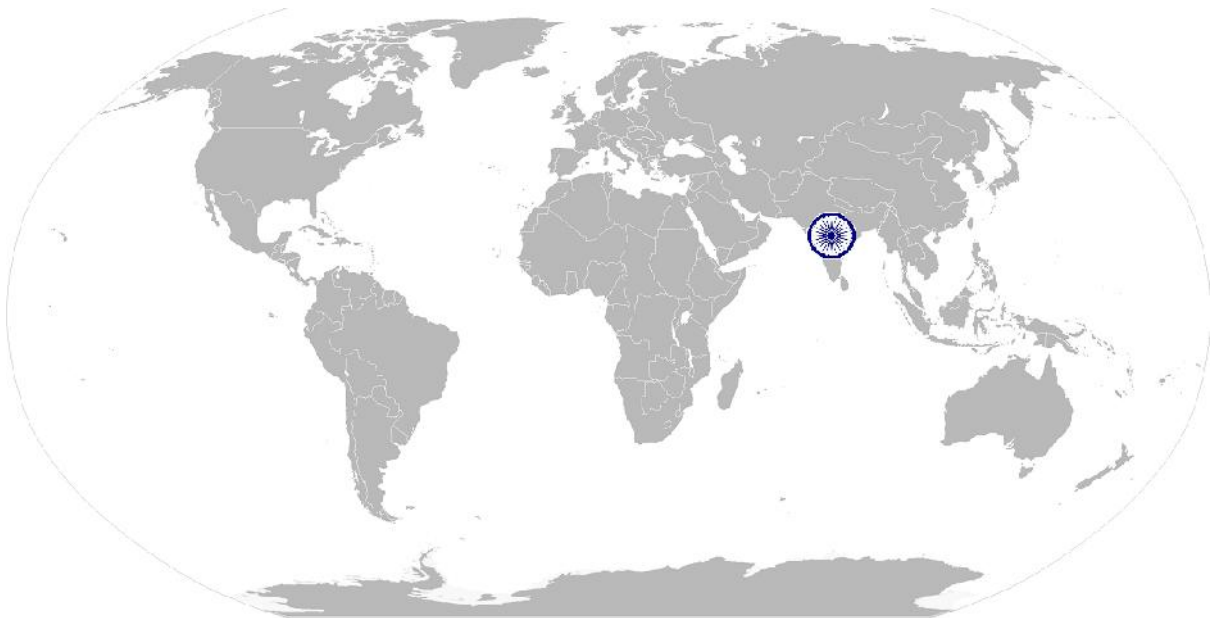
Definitions

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 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 standard 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 Standard 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 Standard which apply uniquely in the Indian context.
Qualification Pack Code	Qualification Pack Code is a unique reference code that identifies a qualification pack.
Qualification Pack	Qualification Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualification 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.

Acronyms

Keywords /Terms	Description
SCMS	Skill council for Mining Sector
NOS	National Occupational Standard
NSQF	National Skill Qualification Framework
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
OS	Occupational Standard
PC	Performance Criteria
QP	Qualification Pack
SSC	Sector Skill Council

National Occupational Standard



Overview

This unit is about conducting pre-operation check of the equipment and ensuring fitness for operation and safety considering the standard operating procedures specified.

MIN/ N 0441 Pre Operation Check

Unit Code	MIN/ N 0441
Unit Title (Task)	Pre-Operation Check
Description	This unit is about conducting pre-operation check of the equipment and ensuring fitness for operation and safety considering the standard operating procedures specified
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> • Conduct Pre-Operation Check • to work in confined spaces, including underground • to work in remote areas where conditions can be hot, wet, dirty and dusty.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Conduct Pre-Operation Check	<p>PC1. Inspect and maintain full control of the top or bottom of shaft and the inset</p> <p>PC2. Conduct visual inspection of:</p> <ul style="list-style-type: none"> • Gates & Fencing • Girders • Operating Levers • Boards and Displays • Keps • Cage Safety Features & associated safety mechanisms • Stowing arrangements <p>PC3. Conduct general cleanliness and upkeep of cage system</p> <p>PC4. Acquaint with and carefully attend to, the prescribed code of signals.</p> <p>PC5. Inspect the signalling installation for proper functioning and identify any malfunctioning. In case any malfunctioning is observed, immediately notify the manager or designated person</p> <p>PC6. Identify types of material/ tools/ equipment required to be carried in the cage and thoroughly inspect approval letter by the manager or designated persons</p> <p>PC7. Conduct test run of the system by at least one complete trip up and down the working portion of the shaft., after any stoppage of winding for repairs or for any other cause for a period exceeding two hours</p> <p>PC8. Inspect the cage and functioning of its safety mechanism, ensure that the</p>

MIN/ N 0441 Pre Operation Check

	<p>cage gates on both sides are in position and closed, before signaling for the cage to be lowered or raised.</p> <p>PC9. Inspect operation of catching mechanism and ensure that the mechanism is holding the tubs properly before giving a go-ahead for operation. If he notices any defect in the tub-catches, he shall immediately inform his superior official.</p> <p>PC10. Check and ensure all fences and gates provided at the top of the shaft or at any inset are in position. If he notices any defect in the fencing and gate, he shall immediately inform his superior official.</p> <p>PC11. Keep the top of the shaft or the inset and the floor of every cage free from loose material.</p> <p>PC12. Ensure availability of means of fastening to enable lowering/ raising of long timber, pipes, rails or other material projecting over the top of a cage or other means of conveyance and ensure that the projecting ends are securely fastened to the rope, chains or bow.</p> <p>PC13. Operate and ensure that keps are in proper working order.</p>
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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> <p>KA1. Different types of mines and detail of the mine he is working in</p> <p>KA2. Mine Organisation, time keeping, need for discipline and punctuality</p> <p>KA3. Galleries in underground mine, dressing of roof, stable/ unstable strata etc</p> <p>KA4. Standing orders in force at the mine. Safety in the vicinity of machinery</p> <p>KA5. Duties of workmen</p> <p>KA6. Provision of wages, working hours and accident compensation as per Mines act</p> <p>KA7. Knowledge of mining safety procedures</p> <p>KA8. Impact of violation of safely procedures</p>
<p>A. 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. relevant standard and procedures followed in the company</p> <p>KB2. different types of vehicles and code signals in the mine</p> <p>KB3. processes like Procurement, Store management, inventory management, quality management and key contact points for query resolution</p>

MIN/ N 0441 Pre Operation Check

C. Technical / Domain Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KC1. Code of signal as prescribed by the statue and mining manager</p> <p>KC2. Operation and working of signalling system</p> <p>KC3. Mechanism and layout of the Cage</p> <p>KC4. Layout and working of levers provided</p> <p>KC5. Safety features and associated mechanisms in the cage</p> <p>KC6. Layout and working of Gates & Fencing</p> <p>KC7. Operation of stowing mechanisms and catching mechanism for securing tubs</p> <p>KC8. Fastening/ latching mechanisms provided to secure men/ material</p> <p>KC9. The basic mechanical and electrical systems in relation to the lowering and hoisting of men/material:</p> <ul style="list-style-type: none"> • Inspection of Lifting Equipment • Calculating Load Weights • Safe Sliding of Loads • Safe Use of the Relevant Equipment and Accessories • Controlling the Movement of the Load <p>KC10.hazards and safety aspects involved and usage of relevant PPEs</p>
Skills (S)	
A. Core Skills/ Generic Skills	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>note down observations (if any)</p> <p>SA1. note down the output data for the respective shifts in the log sheets/ online ERP as per applicability in the organization</p> <p>SA2. write to internal customers on the requirement of equipment, hand tools etc</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read and interpret symbols and coding signals</p> <p>SA4. read equipment manuals and process documents to understand the equipments and processes better</p> <p>SA5. read internal information drawings send by internal customers (other functions within the organization)</p> <p>Oral Communication (Listening and Speaking skills)</p>

MIN/ N 0441 Pre Operation Check

	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA6. discuss task lists, schedules, and work-loads with co-workers</p> <p>SA7. effectively communicate with the team members</p> <p>SA8. question internal customers appropriately in order to understand the nature of the problem and make a diagnosis</p> <p>SA9. attentively listen with full attention and comprehend the information given by the speaker</p>
B. Professional Skills	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions pertaining to the concerned area of work</p>
	Plan and Organize
	<p>The user/individual on the job needs to know and understand:</p> <p>SB2. plan and organize service feedback files/documents</p>
	Customer Centricity
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB3. manage relationships with customers who may be stressed, frustrated, confused, or angry</p> <p>SB4. build customer relationships and use customer centric approach</p>
	Problem Solving
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB5. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s)</p> <p>SB6. deal with clients lacking the technical background to solve the problem on their own</p> <p>SB7. identify immediate or temporary solutions to resolve delays</p>
	Analytical Thinking
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB8. use the existing data to arrive at specific data points</p> <p>SB9. use the existing data points for improving the call resolution time</p> <p>SB10. use the existing data points to generate required reports for business</p>
	Critical Thinking
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB11. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action</p>

MIN/ N 0441 Pre Operation Check

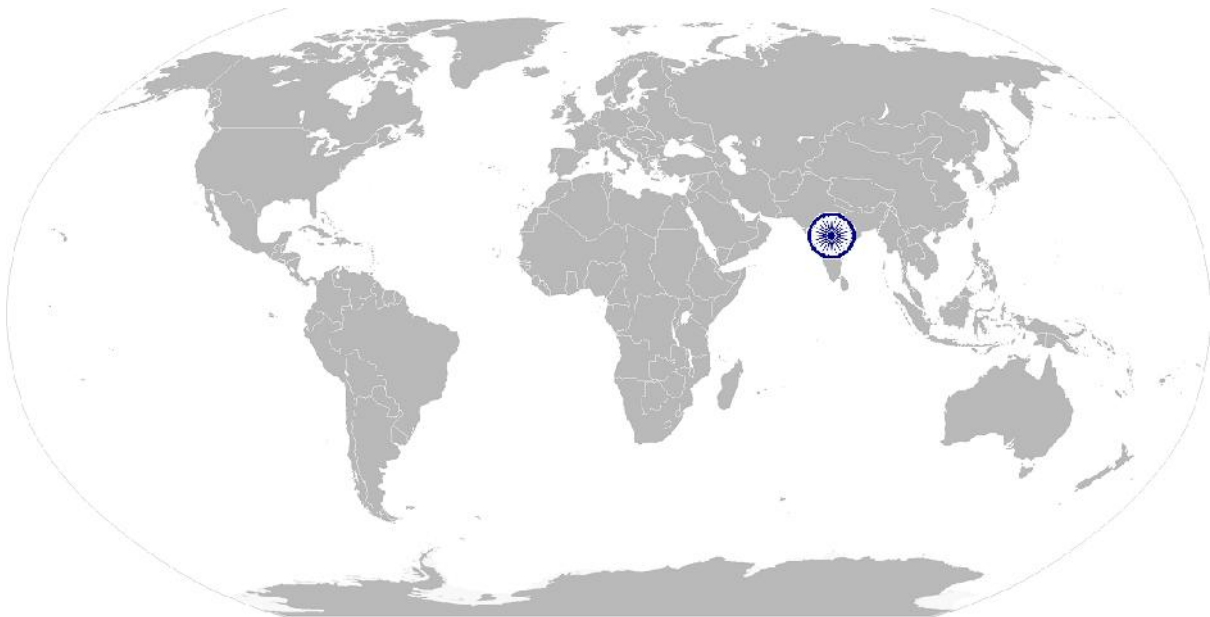
NOS Version Control

NOS Code	MIN/N 0441		
Credits(NSQF)	TBD	Version number	1.0
Sector	Mining	Drafted on	15/12/2014
Sub-sector	Underground Mines	Last reviewed on	24/03/2015
Occupation	Mining Operations	Next review date	24/03/2017



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National Occupational Standard



Overview

This unit is about lowering and raising of persons, tools and materials and to transmit signals at the top of a shaft or incline

MIN/ N 0442 Operation and Running

Unit Code	MIN/ N 0442
Unit Title (Task)	Operation & Running
Description	This OS unit is about lowering and raising of persons, tools and materials and to transmit signals at the top of a shaft or incline
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> Lowering and raising of persons, tools and materials
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria
Lowering and raising of persons, tools and materials	<p>PC1. Carefully attend to, the prescribed code of signals and properly transmit the signals by the means/mechanism provided.</p> <p>PC2. Observe proper functioning of signaling installation, and notify in case of any defect</p> <p>PC3. Ensure that his position is attended to at all times and is not left unattended, and continues to man the position at the end of shift until relieved by a duly appointed substitute</p> <p>PC4. Estimate the load of people and material and not allow more than the authorized number of persons to enter the cage or other means of conveyance at any time.</p> <p>PC5. Not allow any person to ride on the top or edge of any cage or other means of conveyance except when engaged in examination, repair or any other work in the shaft.</p> <p>PC6. Operate mechanisms to open or close the cage or other means of conveyance at any entrance into a shaft or inset which is provided with gates or fences, and ensure that the gate or fence are not removed until the cage or other means of conveyance has stopped at the entrance, and proper signals have been transmitted.</p> <p>PC7. Notify the winding engineman to stop the engine at any instance when he suspects that the cages are not working smoothly in the shaft or when he hears anything unusual happening in the shaft while the winding engine is working.</p> <p>PC8. Guard and prevent unauthorized access to the cage. In case he is informed of</p>

MIN/ N 0442 Operation and Running

	<p>any danger in the shaft, he will allow only maintenance personnel for examination or repair; and during the time that such examination or repair is going on, he shall remain on duty and attend to signals as per the prescribed code</p> <p>PC9. Maintain the record of the following in the log book</p> <ul style="list-style-type: none"> • Number of persons going underground at the start of shift. • Number of tubs lifted up the surface. • Number of hours the cage have been in operation and number of hours it is in maintenance. • Any discrepancies in the signaling system, keps, and cage catcher.
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> <p>KA1. Different types of mines and detail of the mine he is working in</p> <p>KA2. Mine Organisation, time keeping, need for discipline and punctuality</p> <p>KA3. Benching in quarries, Dressing of overhangs, Undercuts, Fencing, First aid and Hygiene</p> <p>KA4. Standing orders in force at the mine. Safety in the vicinity of machinery</p> <p>KA5. Shot-firing and Safety regulations. How and where to take shelter</p> <p>KA6. Duties of workmen</p> <p>KA7. Provision of wages, working hours and accident compensation as per Mines act</p> <p>KA8. Knowledge of mining safety procedures</p> <p>KA9. Impact of violation of safely procedures</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. relevant standard and procedures followed in the company</p> <p>KB2. different types of vehicles and code signals in the mine</p> <p>KB3. processes like Procurement, Store management, inventory management, quality management and key contact points for query resolution</p>

MIN/ N 0442 Operation and Running

C. Technical/ Domain Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KC1. Operation and working of signalling system</p> <p>KC2. Code of signal as prescribed by the statue and mining manager</p> <p>KC3. Mechanism and layout of the Cage</p> <p>KC4. Layout and working of levers provided</p> <p>KC5. Safety features and associated mechanisms in the cage</p> <p>KC6. Layout and working of Gates & Fencing</p> <p>KC7. Operation of stowing mechanisms and catching mechanism for securing tubs</p> <p>KC8. Fastening/ latching mechanisms provided to secure men/ material</p> <p>KC9. The basic mechanical and electrical systems in relation to the lowering and hoisting of men/material:</p> <ul style="list-style-type: none"> • Inspection of Lifting Equipment • Calculating Load Weights • Safe Sliding of Loads • Safe Use of the Relevant Equipment and Accessories • Controlling the Movement of the Load <p>KC10. Hazards and safety aspects involved and usage of relevant PPEs</p> <p>KC11. Communicate with the persons deployed in the underground.</p>
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. note down observations (if any) related to signalling systems & vehicles</p> <p>SA2. note down the production data for the respective shifts in the log sheets/ online ERP as per applicability in the organization</p> <p>SA3. write to internal customers on the requirement of apparatus, hand tools etc</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. read equipment manuals and process documents to understand the equipments and processes better</p> <p>SA5. read instructions especially safety instructions especially symbols while using the equipments</p> <p>SA6. read internal drawings send by internal customers (other functions within the</p>

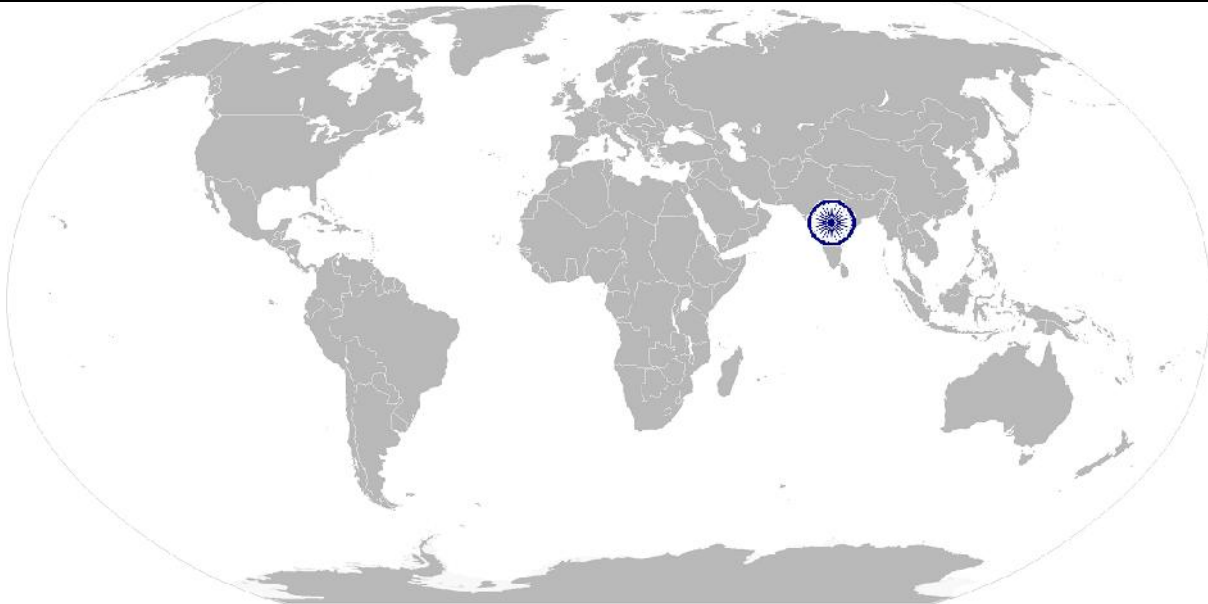
MIN/ N 0442 Operation and Running

	organization)
	Oral Communication (Listening and Speaking skills)
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA7. discuss task lists, schedules, and work-loads with co-workers</p> <p>SA8. question internal customers appropriately in order to understand the nature of the problem and make a diagnosis</p>
B. Professional Skills	Plan and Organize
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. plan and organize the work order and jobs received from the internal customers</p> <p>SB2. plan and organize the design documents received from internal customers</p> <p>SB3. organize all process/ equipment manuals so that sorting out information is fast</p>
	Problem solving
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB4. think through the problem, evaluate the possible solution and suggest the best possible solution to the problem</p> <p>SB5. identify immediate or temporary solutions to resolve delays</p>
	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. make decisions pertaining to the concerned area of work</p>
	Analytical Thinking
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. use the existing data to arrive at specific data points</p> <p>SB8. use the existing data points for improving the call resolution time use the existing data points to generate required reports for business</p>
	Critical Thinking
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB9. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action</p>

MIN/ N 0442 Operation and Running

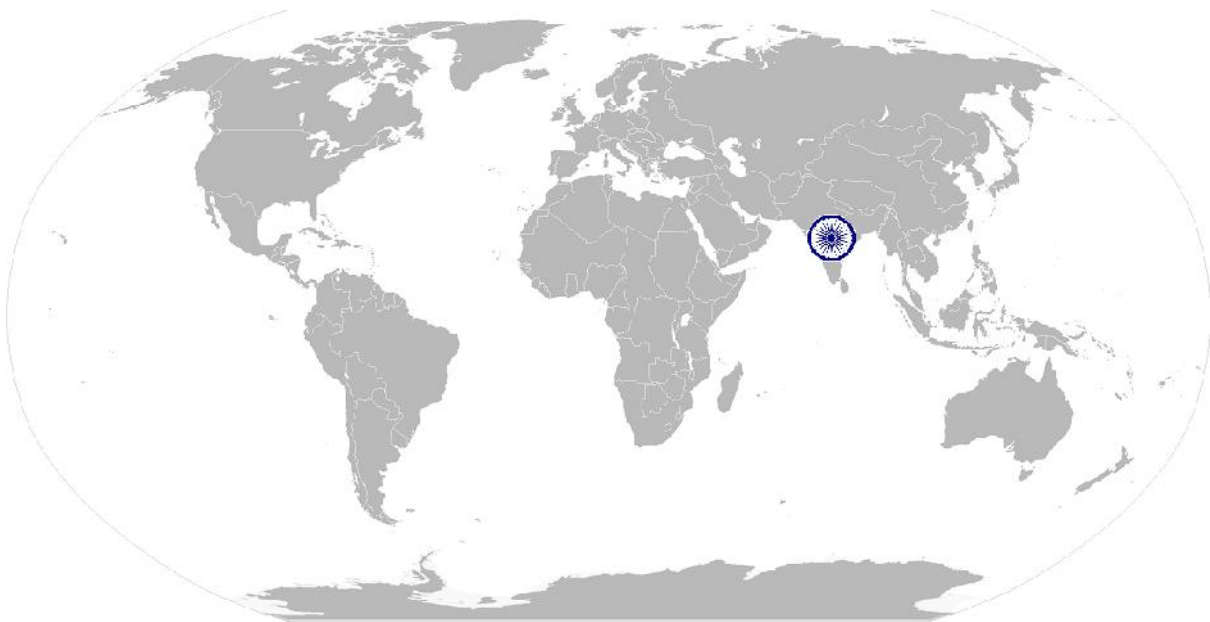
NOS Version Control

NOS Code	MIN/N 0442		
Credits(NSQF)	TBD	Version number	1.0
Sector	Mining	Drafted on	15/12/2014
Sub-sector	Underground Mines	Last reviewed on	24/03/2015
Occupation	Mining Operations	Next review date	24/03/2017



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National Occupational Standard



Overview

This unit is about health and safety measures critical in mines

MIN/ N 0901 Health and Safety

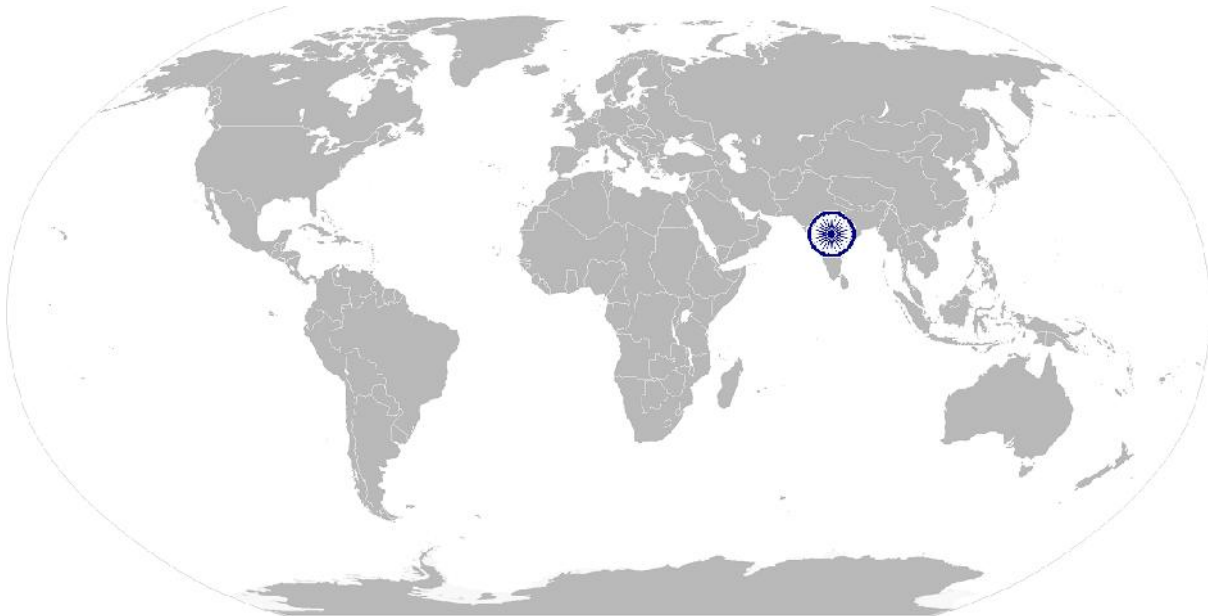
Unit Code	MIN/N 0901
Unit Title (Task)	Health and Safety
Description	This unit is about health and safety measures critical in mines
Scope	This OS unit/task covers the following: <ul style="list-style-type: none"> Health and safety measures critical in mines
Performance Criteria (PC) w.r.t. the Scope	
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 accident or major failure</p> <p>PC4. Comply with safety regulations and procedures in case of fire hazard.</p> <p>PC5. Operate various grades of fire extinguishers.</p> <p>PC6. 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>PC7. Perform storage and transport of hazardous materials compliant with safety guidelines prescribed by DGMS.</p> <p>PC8. Deal with misfires as per statutory requirement</p> <p>PC9. Identify characteristics of post-blast fumes and take necessary precautions.</p> <p>PC10. Wears safety gear such as hard hat, respiratory protection, eye protection, ear protection</p> <p>PC11. Follow the manufacturer's instructions for care and safe operation of the equipment.</p>

MIN/ N 0901 Health and Safety

Knowledge and Understanding (K)	
A. Regulatory context (knowledge of safety guidelines specified by Director General of Mine Safety (DGMS))	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> KA1. Benching in quarries, Dressing of overhangs, undercuts, Fencing KA2. First aid and Hygiene KA3. Code of traffic 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. Impact 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 KA12. Code of practice for safe handling and transport of dangerous material and heavy equipment.

NOS Version Control

NOS Code	MIN/N 0901		
Credits(NSQF)	TBD	Version number Drafted on Last reviewed on Next review date	1.0
Sector	Mining		15/12/2014
Sub-sector	Underground Mines		24/03/2015
Occupation	Mining Operations		24/03/2017



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CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Banksman

Qualification Pack MIN/ Q 0414

Sector Skill Council Mining

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 for the theory part will be based on knowledge bank of questions created by the SSC
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 every NOS
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	
		Total Mark (100)	Out Of	Theory	Skills Practical
1. MIN/ N 0441 (Pre-Operation Check)	PC1. Inspect and maintain full control of the top or bottom of shaft and the inset	35	2	1	1
	"PC2. Conduct visual inspection of: Gates & Fencing Girders Operating Levers Boards and Displays Keps Cage Safety Features & associated safety mechanisms Stowing arrangements"		3	2	1
	PC3. Conduct general cleanliness and upkeep of cage system		3	2	1

	PC4. Acquaint with and carefully attend to, the prescribed code of signals.		3	2	1
	PC5. Inspect the signalling installation for proper functioning and identify any malfunctioning. In case any malfunctioning is observed, immediately notify the manager or designated person		3	2	1
	PC6. Identify types of material/ tools/ equipment required to be carried in the cage and thoroughly inspect approval letter by the manager or designated persons		3	2	1
	PC7. Conduct test run of the system by at least one complete trip up and down the working portion of the shaft., after any stoppage of winding for repairs or for any other cause for a period exceeding two hours		3	2	1
	PC8. Inspect the cage and functioning of its safety mechanism, ensure that the cage gates on both sides are in position and closed, before signaling for the cage to be lowered or raised.		3	2	1
	PC9. Inspect operation of catching mechanism and ensure that the mechanism is holding the tubs properly before giving a go-ahead for operation. If he notices any defect in the tub-catches, he shall immediately inform his superior official		2	1	1
	PC10. Check and ensure all fences and gates provided at the top of the shaft or at any inset are in position. If he notices any defect in the fencing and gate, he shall immediately inform his superior official.		2	1	1

	PC11. Keep the top of the shaft or the inset and the floor of every cage free from loose material.		3	2	1
	PC12. Ensure availability of means of fastening to enable lowering/ raising of long timber, pipes, rails or other material projecting over the top of a cage or other means of conveyance and ensure that the projecting ends are securely fastened to the rope, chains or bow.		3	2	1
	PC13. Operate and ensure that keps are in proper working order.		2	1	1
		Total	35	22	13
2. MIN/ N 0442 (Operation and Running)	PC1. Carefully attend to, the prescribed code of signals and properly transmit the signals by the means/mechanism provided.	35	3	2	1
	PC2. Observe proper functioning of signaling installation, and notify in case of any defect		4	2	2
	PC3. Ensure that his position is attended to at all times and is not left unattended, and continues to man the position at the end of shift until relieved by a duly appointed substitute		4	2	2
	PC4. Estimate the load of people and material and not allow more than the authorized number of persons to enter the cage or other means of conveyance at any time.		4	2	2
	PC5. Not allow any person to ride on the top or edge of any cage or other means of conveyance except when engaged in examination, repair or any other work in the shaft.		4	2	2
	PC6. Operate mechanisms to open or close the cage or other means of conveyance at any entrance into a shaft or inset which is provided with gates or fences, and ensure that the gate or fence		4	2	2

	are not removed until the cage or other means of conveyance has stopped at the entrance, and proper signals have been transmitted.				
	PC7. Notify the winding engineman to stop the engine at any instance when he suspects that the cages are not working smoothly in the shaft or when he hears anything unusual happening in the shaft while the winding engine is working.		4	2	2
	PC8. Guard and prevent unauthorized access to the cage. In case he is informed of any danger in the shaft, he will allow only maintenance personnel for examination or repair; and during the time that such examination or repair is going on, he shall remain on duty and attend to signals as per the prescribed code		4	2	2
	"PC9. Maintain the record of the following in the log book Number of persons going underground at the start of shift. Number of tubs lifted up the surface. Number of hours the cage have been in operation and number of hours it is in maintenance. Any discrepancies in the signaling system, keps, and cage catcher."		4	2	2
		Total	35	18	17
3. MIN / N 0901 (Health and Safety)	PC1. Comply with occupational health and safety regulations adopted by the employer.	30	3	2	1
	PC2. Follow mining operations procedures with respect to materials handling and accidents		3	2	1
	PC3. Follow the correct safety steps in case of accident or major failure		3	2	1

	PC4. Comply with safety regulations and procedures in case of fire hazard.		3	2	1
	PC5. Operate various grades of fire extinguishers.		3	2	1
	PC6. 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		2	1.5	0.5
	PC7. Perform storage and transport of hazardous materials compliant with safety guidelines prescribed by DGMS.		2	1.5	0.5
	PC8. Deal with misfires as per statutory requirement		2	1	1
	PC9. Identify characteristics of post-blast fumes and take necessary precautions.		3	2	1
	PC10. Wears safety gear such as hard hat, respiratory protection, eye protection, ear protection		3	2	1
	PC11. Follow the manufacturer's instructions for care and safe operation of the equipment.		3	2	1
		Total	30	20	10