



### 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-Fireman**

**SECTOR: MINING** 

**SUB-SECTOR:** Open cast and Underground Mines

**OCCUPATION:** Mine Rescue/ Health

REFERENCE ID: MIN/Q 0439

**ALIGNED TO:** NCO-2004/NIL

A Fireman ensures preventive as well rescue related safety of the mine

**Brief Job Description:** This role is responsible for prevention as well as rescue of the mine areas and mine workers from the hazardous fires that can be a potential threat to life and property.

**Personal Attributes:** Technical knowledge of firefighting techniques and tools, ability to plan and prioritize, quality consciousness, sensitivity to problem solving, quick decision making, safety orientation, reading, writing and communication skills, Dexterity and high precision, ability to use internal ERP systems





Qualification Pack Code	MIN/Q 0439		
Job Role	Fireman		
Credits(NSQF)	TBD	Version number	1.0
Industry	Mining	Drafted on	15/12/2014
Sub-sector	Open cast and Underground Mines	Last reviewed on	24/03/2015
Occupation	Mine Rescue/ Health	Next review date	24/03/2017

Job Role	Fireman
	This role is responsible for prevention as well as rescue of the
Role Description	mine areas and mine workers from the hazardous fires that
	can be a potential threat to life and property.
NSQF level	4
Minimum Educational Qualification	Class XII
Maximum Educational Qualification	NA
	Different firefighting techniques used in organizations
	2. 5S and Safety aspects
Training (Suggested but not mandatory)	3. Problem Solving Techniques
(Suggested but not mandatory)	4. Quality Management Systems
Experience	1 year in mining firefighting operations
	Compulsory:
	Click on the hyperlink to read/download the required NOS
	1. MIN/ N 0507 ( <u>Undertake actions to prevent the fire</u>
	situations in a mine)
Applicable National Occupational Standards	2. MIN/ N 0508 (Conduct fire rescue operations)
Standards	3. MIN/ N 0901 (Health and Safety)
	, , , , , , , , , , , , , , , , , , , ,
	Optional:
	Not Applicable
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.
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.



# Qualifications Pack For Fireman



# Acronyms

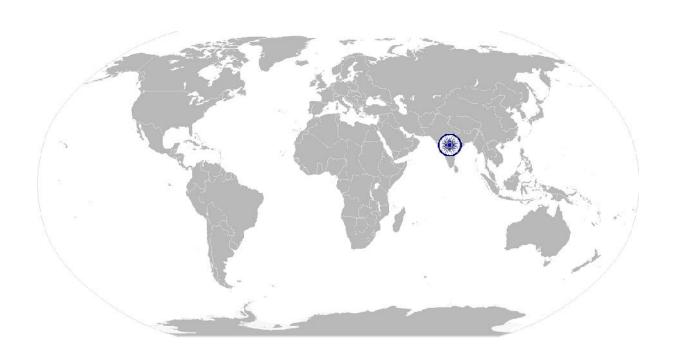
Keywords /Terms	Description
SCMS	Skill council for Mining Sector
NOS	National Occupational Standards
NSQF	National Skills Qualification Framework
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
OS	Occupational Standards
PC	Performance Criteria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







# National Occupational Standard



### **Overview**

This unit is about identifying the organizational requirements to ensure safety from fire and undertaking the actions to prevent the fire situations in a mine







Unit Code	MIN/ N0507
Unit Title (Task)	Undertake actions to prevent the fire situations in a mine
Description	This OS unit is about identifying the organizational requirements to ensure safety
	from fire and undertaking the actions to prevent the fire situations in a mine
Scope	This unit/task covers the following:
	<ul> <li>Identify the organizational requirements to ensure safety from fire</li> </ul>
	Undertake actions to prevent the fire situations in a mine
Performance Criteria (I	PC) w.r.t. the Scope
Element	Performance Criteria
Identify the	PC1. Identify the common types of fires i.e. accidental fires and spontaneous fires
requirements to	as well as the possible sources of the same
ensure fire safety in	PC2. Identify the sources of fire i.e. diesel engine, oil spillage, electrical fires,
the mine	frictional fires, blasting, explosion etc
	PC3. Identify the potential location/s of figure. compressors, explosive stores etc
	PC4. Identify various ways to extinguish the different types of fires and associated
	equipment required like water sprinklers, fire extinguishers, etc
	PC5. Understand the availability and workability of fire alarms at the site
	PC6. Understand the adequacy and availability of fire extinguishing equipment at
	the site
	PC7. Deal with shortfalls that affect the availability of resources to meet
	operational readiness
Undertake	PC8. Facilitate the awareness of fire safety and associated safety actions that could
preventive actions	be taken at the time of fire in the mine
towards fire safety	PC9. Enter inspection, training and emergency medical service calls into the
	records
	PC10. Ensure adherence to the fire safety related policies and guidelines defined for
	the organization
	PC11. Ensure periodic checking and maintenance of the fire extinguishing
	equipment at the site
Karalaha sahijata	standing (V) w r t the scene

Knowledge and Understanding (K) w.r.t. the scope







MIN/ NO	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	KA3. Benching in quarries, Dressing of overhangs, Undercuts, Fencing, First aid and
guidelines	Hygiene
specified by	KA4. Standing orders in force at the mine. Safety in the vicinity of machinery
Director	KA5. Shot-firing and Safety regulations. How and where to take shelter
General of	KA6. Duties of workmen
Mine Safety	KA7. Provision of wages, working hours and accident compensation as per
(DGMS))	Mines act
	KA8. Knowledge of mining safety procedures
	KA9. Impact of violation of safely procedures
B. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. Relevant standard and procedures followed in the company
(Knowledge of the	KA2. Processes like Fire Fighting, Procurement, Store management, inventory
company /	management, quality management and key contact points for query
organization and	resolution
its processes)	
C. Technical	The user/individual on the job needs to know and understand:
Knowledge	KC1. Different types of sources of fire like frictional fires, electrical fires, explosives,
Kilowieuge	*
	oil spills, blasting, etc.
	KC2. Different types of fire safety equipment like fire extinguishers, water
	sprinklers, breathing apparatus, fire jackets, fire alarms etc
	KC3. Hazards and safety aspects involved in fire prevention and rescue activities
	and usage of relevant PPEs
	KC4. Knowledge of mines rescue rules 1985
	KC5. Knowledge of 'K' type of fires
	KC6. Knowledge of emergency preparedness plan, mock drills etc
	KC7. Knowledge and usage of fire extinguishing and fire- fighting equipment
	KC8. Knowledge of mine plan, goaf area, de-pillaring sites etc







Skills (S) [Optional]	obot characteristic prevent the fire statutions in a finite		
A. Core Skills/	Writing Skills		
Generic Skills	The user/ individual on the job needs to know and understand how to:		
	SA1. Note down observations (if any) related to the fire fighting		
	SA2. Write information documents to internal departments/ internal teams or		
	enter the information in online ERP systems under guidance of the supervisor		
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA3. Read equipment manuals and process documents to understand the		
	equipment and processes better		
	SA4. Read internal information documents sent by internal teams		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA5. Discuss task lists, schedules and activities with the supervisor		
	SA6. Effectively communicate with the team members		
	SA7. Question the supervisor in order to understand the nature of the problem		
	and to clarify queries		
	SA8. Attentively listen with full attention and comprehend the information given		
	by the speaker		
	SA9. Understand the various hand signals used		
B. Professional Skills	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB1. Plan and organize the work order and jobs received from the Operator		
	SB2. Organize all process/ equipment manuals so that sorting/ accessing		
	information is easy		
	SB3. Support the supervisor in scheduling tasks for helper and assistant supervisor		
	Judgment and Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB4. Use common sense and make judgments during day to day basis		
	SB5. Use reasoning skills to identify and resolve basic problems		
	SB6. Use intuition to detect any potential problems which could arise during		







operations

#### Desire to learn and take initiatives

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

- SB7. Follow instructions and work on areas of improvement identified
- SB8. Complete the assigned tasks with minimum supervision
- SB9. Complete the job defined by the supervisor within timelines and quality norms

#### **Problem Solving and Decision making**

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

- SB10. Detect problems in day to day tasks
- SB11. Support supervisor in using specific problem solving techniques and detailing out the problems
- SB12. Discuss possible solution with the supervisor for problem solving
- SB13. Make decisions in emergency conditions in case the supervisor is not available( as per the authority matrix efined by the organization)







# **NOS Version Control**



NOS Code	MIN/ N0507		
Credits(NSQF)	TBD	Version number	1.0
Industry	Mining	Drafted on	15/12/2014
Industry Sub-sector	Open Cast and Underground Mines	Last reviewed on	24/03/2015
Occupation	Mine Rescue/ Health	Next review date	24/03/2017

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# National Occupational Standards



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# **Overview**

This unit is about conducting firefighting operations which comprise of fire control as well as fire rescue.







Unit Code	MIN/ N0508
Unit Title (Task)	Conduct Fire Rescue Operations
Description	This OS unit is about conducting firefighting operations which comprise of fire
	control as well as fire rescue
Scope	This unit/task covers the following:
	Conducting the firefighting operations
Performance Criteria (PC	) w.r.t. the Scope
Element	Performance Criteria
Conduct fire control	PC1. Understand various equipment to control fire including ladder trucks,
and rescue operations	pumper trucks, tanker trucks, fire hose, fire extinguishers etc
	PC2. Equip himself with the fire protection apparatus including breathing
	apparatus, fire jackets, hoses etc
	PC3. Cut the power supply in the mine
	PC4. Conduct fire control by depriving a fire of fuel (Reducing Agent), oxygen
	(Oxidizing Agent), heat and/or the chemical chain reaction that are
	necessary to sustain itself or re-kindle
	PC5. Conduct preliminary salvage operations such as throwing salvage covers,
	sweeping water and removing debris
	PC6. Attack the mine fires through hose streams channelized towards fire
	PC7. Contact fire brigade/ rescue team immediately for extended support
	PC8. Search and remove the trapped occupants out of hazardous conditions
	PC9. Conduct search that is primarily around movement against room walls (to
	prevent rescuers from becoming lost or disoriented) and methodical
	searches of specific areas by designated teams
	PC10. Check and mobilize the resources from adjoining areas
	PC11. Inspect and clean the equipment and apparatus after returning from a fire
	PC12. Make minor repairs to equipment, perform routine preventive maintenance
	tasks, and keep records of such action
Knowledge and Understa	anding (K) w.r.t. the scope







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		
specified by	and Hygiene		
Director General	KA4. Standing orders in force at the mine. Safety in the vicinity of machinery		
of Mine Safety	KA5. Shot-firing and Safety regulations. How and where to take shelter		
(DGMS))	KA6. Duties of workmen		
	KA7. Provision of wages, working hours and accident compensation as per Mines		
	act		
	KA8. Knowledge of mining safety procedures		
	KA9. Impact of violation of safely procedures		
B. Organizational	The user/individual on the job needs to know and understand:		
Context (Knowledge	KB1. Relevant standard and procedures followed in the company		
of the company /	KB2. Processes like Firefighting, Procurement, Store management, inventory		
organization and its	management, quality management and key contact points for query		
processes)	resolution		
processes	resolution		
C. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KC1. Different types of sources of fire like frictional fires, electrical fires,		
	explosives, oil spills, blasting, etc		
	KC2. Different types of fire safety equipment like fire extinguishers, water		
	sprinklers, breathing apparatus, fire jackets, fire alarms etc		
	KC3. Hazards and safety aspects involved in fire prevention and rescue activities		
	and usage of relevant PPEs		
	KC4. Knowledge of mines rescue rules 1985		
	KC5. Knowledge of 'K' type of fires		
	KC6. Knowledge of emergency preparedness plan, mock drills etc		
	KC7. Knowledge and usage of fire extinguishing and fire- fighting equipment		
	KC8. Knowledge of mine plan, goaf area, de-pillaring sites etc		
Skills (S) [Optional]			







A. Core Skills/ Generic	MIN/ N0508 Conduct Fire Rescue Operations Writing Skills			
	-			
Skills	The user/ individual on the job needs to know and understand how to:			
	SA1. Document information from the sketches and engineering drawings			
	SA2. Prepare draft drawings for the final output product			
	SA3. Note down observations (if any) related to the fire fighting process			
	SA4. Write information documents to internal departments/ internal teams or			
	SA5. Enter the information in online ERP systems under guidance of the			
	supervisor			
	Reading Skills			
	The user/individual on the job needs to know and understand how to:			
	SA6. Read and interpret engineering drawing and sketches			
	SA7. Read and interpret symbols and measurements used in the drawings			
	SA8. Read equipment manuals and process documents to understand the			
	equipment and processes better			
	SA9. Read internal information documents sent by internal teams			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to:			
	SA10. Discuss task lists, schedules and activities with the supervisor			
	SA11. Effectively communicate with the team members			
	SA12. Question the supervisor in order to understand the nature of the problem			
	and to clarify queries			
	SA13. Attentively listen with full attention and comprehend the information given			
	by the speaker			
	SA14. Understand the various hand signals used			
B. Professional	Plan and Organize			
Skills	The user/individual on the job needs to know and understand how to:			
	SB1. Plan and organize the work order and jobs received from the Operator			
	SB2. Organize all process/ equipment manuals so that sorting/ accessing			
	information is easy			
	Analytical Thinking			
	The user/individual on the job needs to know and understand how to:			







- SB3. Visualize the final job product after understanding the given drawing/ sketches
- SB4. Identify the strengths and weakness of various fire fighting process

#### **Judgment and Critical Thinking**

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

- SB5. Use common sense and make judgments during day to day basis
- SB6. Use reasoning skills to identify and resolve basic problems

#### Desire to learn and take initiatives

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

- SB7. Follow instructions and work on areas of improvement identified complete the assigned tasks with minimum supervision
- SB8. Complete the job defined by the supervisor within the timelines and quality norms
- SB9. Take self initiatives in driving small projects with the supervisor like improvement, training of helpers appassistant operators, 5S, Kaizen etc







# **NOS Version Control**

NOS Code	MIN/ N0508	ne distriction of the second	
Credits(NSQF)	TBD	Version number	1.0
Industry	Mining	Drafted on	15/12/2014
Industry Sub-sector	Open Cast and Underground Mines	Last reviewed on	24/03/2015
Occupation	Mine Rescue/ Health	Next review date	24/03/2017

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# National Occupational Standards



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# **Overview**

This unit is about health and safety measures critical in mines







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:
	Health and safety measures critical in mines
Performance Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
Safety, Security and	To be competent, the user/individual on the job must be able to:
Administrative	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 accident or major failure
	PC4. Comply with safety regulations and projectures in case of fire hazard.
	PC5. Operate various grades of fire extinguishers.
	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
	PC7. Perform storage and transport of hazardous materials compliant with
	safety guidelines prescribed by DGMS.
	PC8. Deal with misfires as per statutory requirement
	PC9. Identify characteristics of post-blast fumes and take necessary
	precautions.
	PC10. Wears safety gear such as hard hat, respiratory protection, eye
	protection, ear protection
	PC11. Follow the manufacturer's instructions for care and safe operation of the
	equipment.
Knowledge and Under	standing (K)







A. Regulatory	The user/individual on the job needs to know and understand:
context (knowledge	KA1. Benching in quarries, Dressing of overhangs, undercuts, Fencing
of safety guidelines	KA2. First aid and Hygiene
specified by Director	KA3. Code of traffic in specific areas of mine. Significance of fences
General of Mine	KA4. Standing orders in force at the mine. Safety in the vicinity of machinery
Safety (DGMS))	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.

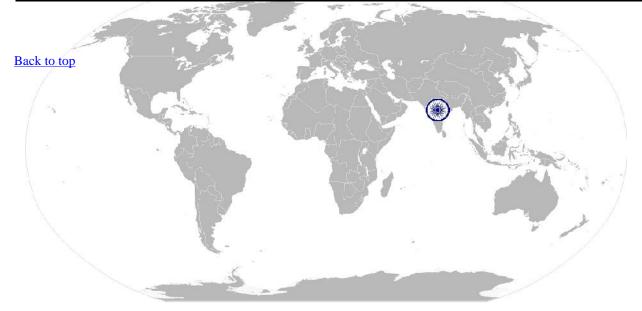






# **NOS Version Control**

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



#### **CRITERIA FOR ASSESSMENT OF TRAINEES**

#### Job Role Fireman

# Qualification Pack MIN/Q 0439

# **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 centre (as per assessment criteria below)
- 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre 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 Al	location
		Total Mark (100)	Out Of	Theory	Skills Practical
1. MIN/ N 0507 (Undertake actions to prevent the fire situations in a mine)	PC1. Identify the common types of fires i.e. accidental fires and spontaneous fires as well as the possible sources of the same	35	4	2	2
	PC2. Identify the sources of fire i.e. diesel engine, oil spillage, electrical fires, frictional fires, blasting, explosion etc		3	1.5	1.5
	PC3. Identify the potential location/s of fire i.e. compressors, explosive stores etc		4	2	2
	PC4. Identify various ways to extinguish the different types of fires and associated equipment required like water sprinklers, fire extinguishers, etc		3	2	1

	PC5. Understand the availability and workability of fire alarms at the site		3	2	1
	PC6. Understand the adequacy and availability of fire extinguishing equipment at the site		3	2	1
	PC7. Deal with shortfalls that affect the availability of resources to meet operational readiness		3	1.5	1.5
	PC8. Facilitate the awareness of fire safety and associated safety actions that could be taken at the time of fire in the mine		3	1.5	1.5
	PC9. Enter inspection, training and emergency medical service calls into the records		3	2	1
	PC10. Ensure adherence to the fire safety related policies and guidelines defined for the organization		3	2	1
	PC11. Ensure periodic checking and maintenance of the fire extinguishing equipment at the site		3	1.5	1.5
		Total	35	20	15
2. MIN/ N 0508 (Conduct fire rescue operations)	PC1. Understand various equipment to control fire including ladder trucks, pumper trucks, tanker trucks, fire hose, fire extinguishers etc	35	3	2	1
	PC2. Equip himself with the fire protection apparatus including breathing apparatus, fire jackets, hoses etc		3	1.5	1.5
	PC3. Cut the power supply in the mine		2	1	1
	PC4. Conduct fire control by depriving a fire of fuel (Reducing Agent), oxygen (Oxidizing Agent), heat and/or the chemical chain reaction that are necessary to sustain itself or re-kindle		3	1.5	1.5

	PC5. Conduct preliminary salvage operations such as throwing salvage covers, sweeping water and removing debris		3	1.5	1.5
	PC6. Attack the mine fires through hose streams channelized towards fire		3	2	1
	PC7. Contact fire brigade/ rescue team immediately for extended support		3	2	1
	PC8. Search and remove the trapped occupants out of hazardous conditions		3	2	1
	PC9. Conduct search that is primarily around movement against room walls (to prevent rescuers from becoming lost or disoriented) and methodical searches of specific areas by designated teams		3	1.5	1.5
	PC10. Check and mobilize the resources from adjoining areas		3	2	1
	PC11. Inspect and clean the equipment and apparatus after returning from a fire		3	1.5	1.5
	PC12. Make minor repairs to equipment, perform routine preventive maintenance tasks, and keep records of such action		3	1.5	1.5
		Total	35	20	15
3. MIN/ N0901 (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