

## QUALIFICATIONS PACK - OCCUPATIONAL STANDARD FOR MINING INDUSTRY

### What are Occupational Standard (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- Strata Monitoring Operator

**SECTOR:** MINING

**SUB-SECTOR:** Underground Mines

**OCCUPATION:** Mining Operations

**REFERENCE ID:** MIN/Q 0435

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

A Strata Monitoring Operator reports observations specific to strata.

**Brief Job Description:** This role is responsible for conducting end to end activities of monitoring the strata and report any movements/ other observations pertinent to strata in order to take required actions.

**Personal Attributes:** Technical knowledge of strata monitoring, 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

Job Details	Qualification Pack Code	MIN/ Q 0435		
	Job Role	Strata Monitoring Operator		
	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	Strata Monitoring
Role Description	This role is responsible for conducting end to end activities of monitoring the strata and report any movements/ other observations pertinent to strata in order to take required actions
NSQF level Minimum Educational Qualification Maximum Educational Qualification	4 Class XII NA
Training (Suggested but not mandatory)	<ol style="list-style-type: none"> <li>1. Different Meter Readings and Strata Monitoring techniques used in organizations</li> <li>2. 5S and Safety aspects</li> <li>3. Problem Solving Techniques</li> <li>4. Quality Management Systems</li> </ol>
Experience	2-3 years in mining
Applicable National Occupational Standards	<p><b>Compulsory:</b> Click on the hyperlink to read/download the required NOS</p> <ol style="list-style-type: none"> <li>1. MIN/ N 0499 (<a href="#">Provide support in equipment installation</a>)</li> <li>2. MIN/ N 0500 (<a href="#">Conduct strata monitoring operations</a>)</li> <li>3. MIN/ N 0901 (<a href="#">Health and Safety</a>)</li> </ol> <p><b>Optional:</b> Not Applicable</p>
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 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 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

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## Overview

This unit is about providing required support in installation of the strata monitoring equipment in the mine

## MIN/ N0499 Provide support in equipment installation

<b>Unit Code</b>	<b>MIN/ N0499</b>
<b>Unit Title (Task)</b>	<b>Provide support in equipment installation</b>
<b>Description</b>	This OS unit is about providing required support in installation of the strata monitoring equipment in the mine
<b>Scope</b>	This unit/task covers the following: <ul style="list-style-type: none"> <li>Support for strata monitoring equipment installation</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Support in strata monitoring equipment installation</b>	<p>PC1. Understand the requirements for strata monitoring i.e. Surface or Sub Surface</p> <p>PC2. In case of sub surface, finalize the kind of structures to be created for equipment installation i.e. bores/ flat jacks etc basis the type of equipment to be placed in them</p> <p>PC3. Finalize the dimensions of the structure as per the dimensions of the equipment</p> <p>PC4. Assemble the equipment together with its various components</p> <p>PC5. Conduct a check on workability of the equipment</p> <p>PC6. Install the assembled equipment in the designed structures</p>
<b>Knowledge and Understanding (K) w.r.t. the scope</b>	
<b>Element</b>	<b>Knowledge and Understanding</b>
<b>A. Regulatory context</b> (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> <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>
<b>B. Organizational Context</b> (Knowledge of the company / organization and its processes)	<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. processes like Strata Monitoring, Procurement, Store management, inventory management, quality management and key contact points for query resolution</p>

**MIN/ N0499 Provide support in equipment installation**

<b>C. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KC1. different types of strata monitoring equipment and structures like bore hole, extensometer, inclinometer, flat jack, GPS &amp; Radar, etc</p> <p>KC2. various dimensions including diameter, height, surface area, etc</p> <p>KC3. mechanism of strata movement namely sliding, crushing, sheers, water monitoring etc</p> <p>KC4. hazards and safety aspects involved in strata monitoring activities and usage of relevant PPEs</p>
<b>Skills (S) [Optional]</b>	
<b>Element</b>	<b>Skills</b>
<b>Element</b>	<b>Writing Skills</b>
<b>A. Core Skills/ Generic Skills</b>	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. note down observations (if any) related to the strata monitoring</p> <p>SA2. write information documents to internal departments/ internal teams or enter the information in online ERP systems under guidance of the supervisor</p>
	<b>Reading Skills</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read equipment manuals and process documents to understand the equipment and processes better</p> <p>SA4. read internal information documents sent by internal teams</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA5. discuss task lists, schedules and activities with the supervisor</p> <p>SA6. effectively communicate with the team members</p> <p>SA7. question the supervisor in order to understand the nature of the problem and to clarify queries</p> <p>SA8. attentively listen with full attention and comprehend the information given by the speaker</p>
<b>B. Professional Skills</b>	<b>Plan and Organize</b>
	<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 Operator</p> <p>SB2. organize all process/ equipment manuals so that sorting/ accessing information is easy</p> <p>SB3. support the supervisor in scheduling tasks for helper and assistant supervisor</p>
	<b>Judgment and Critical Thinking</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB4. use common sense and make judgments during day to day basis</p> <p>SB5. use reasoning skills to identify and resolve basic problems</p> <p>SB6. use intuition to detect any potential problems which could arise during operations</p>
	<b>Desire to learn and take initiatives</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. follow instructions and work on areas of improvement identified</p> <p>SB8. complete the assigned tasks with minimum supervision</p> <p>SB9. complete the job defined by the supervisor within timelines and quality norms</p>

## MIN/ N0499 Provide support in equipment installation

Problem Solving and Decision making	
	<p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none"><li>SB10. detect problems in day to day tasks</li><li>SB11. support supervisor in using specific problem solving techniques and detailing out the problems</li><li>SB12. discuss possible solution with the supervisor for problem solving</li><li>SB13. make decisions in emergency conditions in case the supervisor is not available( as per the authority matrix defined by the organization)</li></ul>







## NOS Version Control

<b>NOS Code</b>	MIN/ N0499		
<b>Credits(NSQF)</b>	TBD	<b>Version number</b>	1.0
<b>Industry</b>	Mining	<b>Drafted on</b>	15/12/2014
<b>Industry Sub-sector</b>	Underground Mines	<b>Last reviewed on</b>	24/03/2015
<b>Occupation</b>	Mining Operations	<b>Next review date</b>	24/03/2017

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# National Occupational Standard

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## Overview

**This unit is about conducting strata monitoring operations including reading the strata monitoring meters, generating reports and analysing possible impact**

### MIN/ N0500 Conduct Strata Monitoring Operations

National Occupational Standard

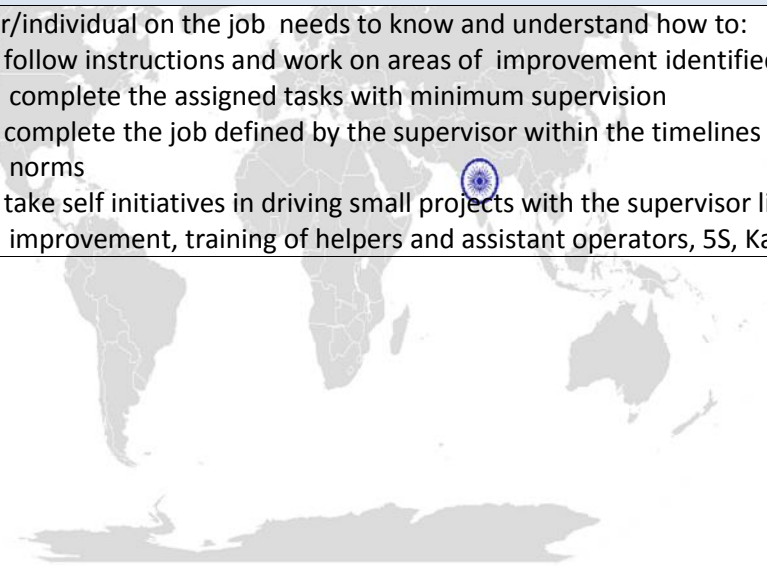
<b>Unit Code</b>	<b>MIN/ N0500</b>
<b>Unit Title (Task)</b>	<b>Conduct Strata Monitoring Operations</b>
<b>Description</b>	This OS unit is about conducting strata monitoring operations including reading the strata monitoring meters, generating reports and analysing possible impact
<b>Scope</b>	This unit/task covers the following: <ul style="list-style-type: none"> <li>Conducting the strata monitoring operations</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Conduct strata monitoring operations</b>	<p>PC1. Conduct a check on the working of strata monitoring equipment and identify the inconsistencies in the observations; Rectify the same taking adequate measures</p> <p>PC2. Read the equipment/ meters which are primarily hydraulic pressure or pneumatic pressure systems or electrical systems through electric resistance strain gauge, vibrating wire and self-inductance.</p> <p>PC3. Most commonly monitored variables include Movement (using surveying methods, surface devices such as crack gauges and tape extensometers, borehole devices such as rod extensometers or inclinometers); Rock stresses (absolute stress or stress change from borehole devices); Pressure, Load and Strain on ground support devices (e.g., load cells); Seismic events and Blast vibrations</p> <p>PC4. Finalize the frequency of the data measurement basis the meter readings which reflect severity of the strata load/ movement and the need to monitor the same</p> <p>PC5. Enter the observed data in the record books and sign the same</p> <p>PC6. Analyze the result statement and report the same to the supervisor for further analysis</p> <p>PC7. Provide requisite support to the supervisor in analysing the data from the strata monitoring meters and finalizing the course of action to be taken</p>
<b>Knowledge and Understanding (K) w.r.t. the scope</b>	
<b>Element</b>	<b>Knowledge and Understanding</b>
<b>A. Regulatory context</b> (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> <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>

### MIN/ N0500 Conduct Strata Monitoring Operations

	<p>KA8. Knowledge of mining safety procedures</p> <p>KA9. Impact of violation of safely procedures</p>
<b>B. Organizational Context</b> (Knowledge of the company / organization and its processes)	<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. processes like Strata Monitoring, Procurement, Store management, inventory management, quality management and key contact points for query resolution</p>
<b>C. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KC1. different types of strata monitoring equipment and structures like bore hole, extensometer, inclinometer, flat jack, GPS &amp; Radar, etc</p> <p>KC2. various dimensions including diameter, height, surface area, etc</p> <p>KC3. mechanism of strata movement namely sliding, crushing, sheers, water monitoring etc</p> <p>KC4. various analysis pertinent to strata movement and strata load</p> <p>KC5. hazards and safety aspects involved in ore processing activities, and usage of relevant PPEs</p>
<b>Skills (S) w.r.t. the scope</b>	
<b>Element</b>	<b>Skills</b>
<b>A. Core Skills/ Generic skills</b>	<b>Writing Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. document information from the sketches and engineering drawings</p> <p>SA2. prepare draft drawings for the final output product</p> <p>SA3. note down observations (if any) related to the fire fighting process</p> <p>SA4. write information documents to internal departments/ internal teams or</p> <p>SA5. enter the information in online ERP systems under guidance of the supervisor</p>
	<b>Reading Skills</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA6. read and interpret engineering drawing and sketches</p> <p>SA7. read and interpret symbols and measurements used in the drawings</p> <p>SA8. read equipment manuals and process documents to understand the equipment and processes better</p> <p>SA9. read internal information documents sent by internal teams</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA10. discuss task lists, schedules and activities with the supervisor</p> <p>SA11. effectively communicate with the team members</p> <p>SA12. question the supervisor in order to understand the nature of the problem and to clarify queries</p> <p>SA13. attentively listen with full attention and comprehend the information given by the speaker</p>
<b>B. Professional Skills</b>	<b>Plan and Organize</b>
	<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 Operator</p> <p>SB2. organize all process/ equipment manuals so that sorting/ accessing information is easy</p>

**MIN/ N0500 Conduct Strata Monitoring Operations**

	<b>Analytical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB3. identify the strengths and weakness of various process
	<b>Judgment and Critical Thinking</b>
	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
	<b>Desire to learn and take initiatives</b>
	The user/individual on the job needs to know and understand how to: SB6. follow instructions and work on areas of improvement identified complete the assigned tasks with minimum supervision SB7. complete the job defined by the supervisor within the timelines and quality norms SB8. take self initiatives in driving small projects with the supervisor like operation improvement, training of helpers and assistant operators, 5S, Kaizen etc



MIN/ N0500 Conduct Strata Monitoring Operations

NOS Version Control

NOS Code	MIN/ N0500		
Credits(NSQF)	TBD	Version number	1.0
Industry	Mining	Drafted on	15/12/2014
Industry 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



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## Overview

This unit is about health and safety measures critical in mines

**MIN/ N0901 Health and Safety**

National Occupational Standard	<b>Unit Code</b>	MIN/N 0901
	<b>Unit Title (Task)</b>	Health and Safety
	<b>Description</b>	This unit is about health and safety measures critical in mines
	<b>Scope</b>	This OS unit/task covers the following: <ul style="list-style-type: none"> <li>Health and safety measures critical in mines</li> </ul>
	<b>Performance Criteria (PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Safety, Security and Administrative</b>	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 accident or major failure
	PC4. Comply with safety regulations and procedures 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.	



**MIN/ N0901 Health and Safety**

Knowledge and Understanding (K)	
<p><b>A. Regulatory context</b> (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. Benching in quarries, Dressing of overhangs, undercuts, Fencing</p> <p>KA2. First aid and Hygiene</p> <p>KA3. Code of traffic in specific areas of mine. Significance of fences</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. Knowledge of mining safety procedures</p> <p>KA7. Impact of violation of safety procedures</p> <p>KA8. Locally prepared Emergency Preparedness / Disaster Management Plan.</p> <p>KA9. Environmental impact of mining</p> <p>KA10. Sources of dust, noise and vibration and measures to minimise</p> <p>KA11. Hazardous material safety and security rules and regulations as prescribed by DGMS</p> <p>KA12. Code of practice for safe handling and transport of dangerous material and heavy equipment.</p>

MIN/ N0901 Health and Safety

**NOS Version Control**

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

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## CRITERIA FOR ASSESSMENT OF TRAINEES

**Job Role** Strata Monitoring Operator

**Qualification Pack** MIN/ Q 0435

**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 Allocation	
		Total Mark (100)	Out Of	Theory	Skills Practical
1. MIN/ N 0499 (Provide support in equipment installation)	PC1. Understand the requirements for strata monitoring i.e. Surface or Sub Surface	<b>35</b>	6	3	3
	PC2. In case of sub surface, finalize the kind of structures to be created for equipment installation i.e. bores/ flat jacks etc basis the type of equipment to be placed in them		5	3	2
	PC3. Finalize the dimensions of the structure as per the dimensions of the equipment		6	3	3
	PC4. Assemble the equipment together with its various components		6	3	3
	PC5. Conduct a check on workability of the equipment		6	3	3
	PC6. Install the assembled equipment in the designed structures		6	4	2

		<b>Total</b>	<b>35</b>	<b>19</b>	<b>16</b>
2. MIN/ N 0500 (Conduct strata monitoring operations)	PC1. Conduct a check on the working of strata monitoring equipment and identify the inconsistencies in the observations; Rectify the same taking adequate measures	<b>35</b>	5	3	2
	PC2. Read the equipment/ meters which are primarily hydraulic pressure or pneumatic pressure systems or electrical systems through electric resistance strain gauge, vibrating wire and self-inductance.		5	3	2
	PC3. Most commonly monitored variables include Movement (using surveying methods, surface devices such as crack gauges and tape extensometers, borehole devices such as rod extensometers or inclinometers); Rock stresses (absolute stress or stress change from borehole devices); Pressure, Load and Strain on ground support devices (e.g., load cells); Seismic events and Blast vibrations		5	3	2
	PC4. Finalize the frequency of the data measurement basis the meter readings which reflect severity of the strata load/ movement and the need to monitor the same		5	3	2
	PC5. Enter the observed data in the record books and sign the same		5	3	2
	PC6. Analyze the result statement and report the same to the supervisor for further analysis		5	3	2
	PC7. Provide requisite support to the supervisor in analysing the data from the strata monitoring meters and finalizing the course of action to be taken		5	3	2
			<b>Total</b>	<b>35</b>	<b>21</b>

3. MIN / N 0901 (Health and Safety)	PC1. Comply with occupational health and safety regulations adopted by the employer.	<b>30</b>	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		2	1.5	0.5
	PC4. Comply with safety regulations and procedures in case of fire hazard.		2	1	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		3	2	1
	PC7. Perform storage and transport of hazardous materials compliant with safety guidelines prescribed by DGMS.		3	2	1
	PC8. Deal with misfires as per statutory requirement		3	2	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.		2	1.5	0.5
		<b>Total</b>	<b>30</b>	<b>20</b>	<b>10</b>