



QUALIFICATION FILE

Mining Mate/Sirdar

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship

☐ Upskilling ☐ Dual/Flexi Qualification ☒ For ToT ☒ For ToA

☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 5

Submitted By:

Skill Council for Mining Sector (SCMS)

FIMI House, B-311,

Okhla Industrial, Phase-1

New Delhi-110020

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Section 1: Basic Details

1.	Qualification Name	Mining Mate/Sirdar										
2.	Sector/s	Mining										
3.	Type of Qualification: ☐ New ☒ Revised ☒ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: 2022/MIN/SCMS/06988 & Version 2.0	Qualification Name of existing/previous version: Mining Mate/Sirdar									
4.	a. OEM Name b. Qualification Name (Wherever applicable)	Not Applicable										
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-05-MG-04064-2025-V2-SCMS & Version 3.0	6. NCrf/NSQF Level: 5.0									
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Not Applicable										
8.	Brief Description of the Qualification	The Mining Mate/Sirdar supervises mineral production, oversee the safety of mining operations and supervises blasting operations in metal/coal mines.										
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>12th grade Pass (or its equivalent)</td> <td>3 years of relevant experience {or As per Latest Metalliferous Mines Regulations or Coal Mines Regulations}</td> </tr> <tr> <td>2.</td> <td>Previous relevant Qualification of NSQF Level 4 and with minimum education as 12th Grade Pass</td> <td>3 years relevant experience</td> </tr> </tbody> </table> b. Age: 21 years		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	12th grade Pass (or its equivalent)	3 years of relevant experience {or As per Latest Metalliferous Mines Regulations or Coal Mines Regulations}	2.	Previous relevant Qualification of NSQF Level 4 and with minimum education as 12th Grade Pass	3 years relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)										
1.	12th grade Pass (or its equivalent)	3 years of relevant experience {or As per Latest Metalliferous Mines Regulations or Coal Mines Regulations}										
2.	Previous relevant Qualification of NSQF Level 4 and with minimum education as 12th Grade Pass	3 years relevant experience										
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	20	11. Common Cost Norm Category (I/II/III) (wherever applicable): I									
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	Valid Mining Mate's or Mining Sirdar's certificate of competency from Directorate General Of Mines Safety (DGMS)										

13.	Training Duration by Modes of Training Delivery (<i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i>)	☒ Offline ☐ Online ☐ Blended					
		Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
		Classroom (offline)	230:00	310:00	-	-	540:00
		Online	-	-	-	-	-
		(Refer Blended Learning Annexure for details)					
14.	Aligned to NCO/ISCO Code/s (<i>if no code is available mention the same</i>)	NCO-2015/3121.9900, NCO-2015/3121.0500					
15.	Progression path after attaining the qualification (<i>Please show Professional and Academic progression</i>)	NSQF Level 5.5 (Vertical)- Mine Foreman/ Overman					
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi					
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:					
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:					
19.	How Participation of Women will be Encouraged	By creating awareness in women and training them					
20.	Are Greening/ Environment Sustainability Aspects Covered (<i>Specify the NOS/Module which covers it</i>)	☒ Yes ☐ No MIN/N1702, MIN/N1703, MIN/N1704					
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☒ No Colleges ☒ Yes ☐ No					
22.	Name and Contact Details of Submitting / Awarding Body SPOC (<i>In case of CS or MS, provide details of both Lead AB & Supporting ABs</i>)	Name: Mr. Navneet Kumar Email : coo@skillcms.in, scms@skillcms.in Contact No.: +91-11-26814593 Website : https://www.skillcms.in/					
23.	Final Approval Date by NSQC: 06 May 2025	24. Validity Duration: 3 years				25. Next Review Date: 06 May 2028	

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Supervise mineral production at point of extraction	MIN/N1211, V2.0	Core	5	6	60:00	120:00	-	-	180:00	30	50	0	20	100	15
2.	Oversee the safety of the mining operations	MIN/N1212, V2.0	Core	5	5	60:00	90:00	-	-	150:00	30	50	0	20	100	25
3.	Supervise blasting operations	MIN/N1213, V2.0	Core	5	5	50:00	100:00	-	-	150:00	30	50	0	20	100	25
4.	Employability Skills (60 Hours)	DGT/VSQ/N 0102, V1.0	Non-Core	4	2	60:00	00:00	-	-	60:00	20	30	-	-	50	10
Duration (in Hours) / Total Marks					18	230:00	310:00	-	-	540:00	110	180	-	60	350	75

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Follow Health, Safety and Environmental guidelines for Underground Metalliferous Mines	MIN/N1702 V2.0	Core	3.5	2	20:00	40:00	-	-	60:00	30	50	-	20	100	25

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
2.	Follow Health, Safety, and Environmental Guidelines for opencast mines	MIN/N1703 V2.0	Core	3.5	2	20:00	40:00	-	-	60:00	30	50	-	20	100	25
3.	Follow Health, Safety, and Environmental guidelines for underground coal mines	MIN/N1704 V2.0	Core	3.5	2	20:00	40:00	-	-	60:00	30	50	-	20	100	25
Duration (in Hours) / Total Marks					6	60:00	120:00	-	-	180:00	90	150	-	40	300	75

Optional NOS/s: Not Applicable

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.																
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: Not Applicable% (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 12 th pass with 6 years of relevant experience required as Mining Mate or Mining Sirdar. OR ITI pass with 6 years of relevant experience required as Mining Mate or Mining Sirdar. OR Diploma (Mining) with 5 years of relevant experience required as Mining Mate or Mining Sirdar. OR B-Tech (Mining) with 4 years of relevant experience required as Mining Mate or Mining Sirdar. AND Certified for Job role "Mining Mate/Sirdar" and Job Role "Trainer (VET and Skills)" with minimum accepted score of 80% in each.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 12 th pass with 6 years of relevant experience required as Mining Mate or Mining Sirdar. OR ITI pass with 6 years of relevant experience required as Mining Mate or Mining Sirdar. OR Diploma (Mining) with 5 years of relevant experience required as Mining Mate or Mining Sirdar. OR B-Tech (Mining) with 4 years of relevant experience required as Mining Mate or Mining Sirdar. AND Certified for Job role "Mining Mate/Sirdar" and Job Role "Master Trainer (VET and Skills)" with minimum accepted score of 90% in each.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	None

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 12 th pass with 8 years of relevant experience required as Mining Mate or Mining Sirdar. OR ITI pass with 8 years of relevant experience required as Mining Mate or Mining Sirdar. OR Diploma (Mining) with 7 years of relevant experience required as Mining Mate or Mining Sirdar. OR B-Tech (Mining) with 6 years of relevant experience required as Mining Mate or Mining Sirdar. AND Certified for Job role "Mining Mate/Sirdar" and Job Role "Assessor (VET and Skills)" with minimum accepted score of 80% in each.
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2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 12 th pass with 6 years of relevant experience required as Mining Mate or Mining Sirdar. OR ITI pass with 6 years of relevant experience required as Mining Mate or Mining Sirdar. OR Diploma (Mining) with 5 years of relevant experience required as Mining Mate or Mining Sirdar. OR B-Tech (Mining) with 4 years of relevant experience required as Mining Mate or Mining Sirdar. AND Certified for Job role "Mining Mate/Sirdar" and Job Role "Trainer (VET and Skills)" with minimum accepted score of 80% in each.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 12 th pass with 8 years of relevant experience required as Mining Mate or Mining Sirdar. OR ITI pass with 8 years of relevant experience required as Mining Mate or Mining Sirdar. OR Diploma (Mining) with 7 years of relevant experience required as Mining Mate or Mining Sirdar. OR B-Tech (Mining) with 6 years of relevant experience required as Mining Mate or Mining Sirdar. AND Certified for Job role "Mining Mate/Sirdar" and Job Role "Lead Assessor (VET and Skills)" with minimum accepted score of 90% in each.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Tablet based/ Online
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): No
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 21
5.	Estimated nos. of persons to be trained and employed: 200
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)	Attached
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Attached
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Attached
4.	Annexure: Assessment Strategy (Mandatory)	Attached
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is "Blended Learning")	Not Applicable
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	Filled
7.	Annexure: Acronym and Glossary (Optional)	Filled
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Attached
9.	Supporting Document: Career Progression (Mandatory - Public view)	Attached
10.	Supporting Document: Occupational Map (Mandatory)	Attached
11.	Supporting Document: Assessment SOP (Mandatory)	Attached
12.	Any other document you wish to submit:	No

Annexure: Evidence of Level

NCrf/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrf/NSQF level descriptor	NCrf/NSQF Level
Professional Theoretical Knowledge/Process	The Mining Mate/Sirdar supervises mineral production, oversees the safety of mining operations and supervises blasting operations in metal/coal mines.	This job requires the individual to concentrate on the job at hand and complete it efficiently and effectively. The individual should be physically agile, strong, have good eye-sight and not suffer from color- blindness.	5

Professional and Technical Skills/ Expertise/ Professional Knowledge	Code of practice in specific areas of mine, duties of workmen under mines act, job specific documents, safety policy of the company, mining safety procedures, environmental impact of mining, how to respond to emergencies, e.g. correct way to use a fire extinguisher, importance of sensitization towards different genders and persons with disabilities (PWD), importance of following infection control policies, '5-S' practices, and waste management as prescribed by regulatory authorities	The individual is needed have the knowledge of different types of mines, provision of wages, working hours and accident compensation as per Mines act, mining safety procedures and impact of violation of safety procedures. The individual should also know the reporting/recording procedures for inspections carried out on mineral production systems under regulatory requirements or organisational procedures and various SOP followed in the organization.	5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Skills to oversee mineral extraction, and inspection and maintenance of mineral production faces and associated equipment, protect personnel working in vicinity of mineral production faces, carry out monitoring and analysis, protection and sustenance of a safe working environment. Skills to Supervise the preparation for the blast, Supervise firing of the blast, Confirm conclusion of the blast, follow work-site health, safety measures and environmental guidelines for both UG and opencast mines.	The individual is needed to have the skills to oversee the mineral extraction process, ensure smooth working of the mining equipment, safety precautions during mining and other related operations.	5
Broad Learning Outcomes/Core Skill	Take responsibility for completing one's own work assignment, methods to avoid accidents/errors while working with mining equipment. Note down the production data for the respective shifts in the log sheets/ online ERP as per applicability in the organization. Read the manuals, safety instructions and symbols for the better understanding of the material handling activities, loading/unloading of materials.	Records and note down the routine work and observation and comply task list related to safety aspect such as fire-fighting process, handling explosive safely, control dust on haul road etc. and notify the same to senior. Hence, Communication written and oral, with minimum required clarity are required.	5
Responsibility	This job requires the individual to concentrate on the job at hand and complete it efficiently and effectively without any accidents. The individual should be skilled supervising the mineral extraction	Works independently as per the instruction of supervisor/ Shift In- charge/Mines Manager	5

	process. The individual must be able to follow instructions provided by supervisor.		
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Annexure: Tools and Equipment (Lab Set-Up)

(It may change as per Industry needs)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Posters for describing different types of Mines and associated operations	Standard	1
2.	Simple geological models – folds, faults	Standard	1
3.	Centigrade thermometers	Standard	1
4.	Anemometers/ voltammeters	Standard	1
5.	Dummy explosives	Standard	1
6.	Detonators and fuses	Standard	1
7.	Flame safety lamp	Standard	1
8.	Magnetic unlocker	Standard	1
9.	Cap lamps	Standard	5
10.	Fittings and accessories	Standard	1
11.	Methanometers	Standard	1
12.	Model of sinking shaft showing types of fans	Standard	1
13.	Drilling tools and machines and accessories	Standard	1
14.	Audio Visual Alarms	Standard	1
15.	Safety Helmet	Standard	15
16.	Gloves	Standard	15

17.	Harness	Standard	15
18.	Earplugs/Ear muffs	Standard	15
19.	Safety Goggles	Standard	15
20.	Dust mask	Standard	15
21.	Safety shoes/Gum boots	Standard	15
22.	Fire extinguisher	Standard	15
23.	Visibility harness	Standard	15
24.	Reflector Jacket	Standard	15
25.	Fire Protective suits	Standard	15
26.	Self-Rescuer Kit	Standard	15
27.	Drone	Standard	1
28.	First Aid box	Standard	1
29.	Fire Fighting Chart	Standard	1
30.	First Aid chart	Standard	1
31.	LOTO (Lock Out Tag Out)	Standard	1
32.	Company's SOP	Standard	1
33.	Helmet	Standard	15
34.	Types of log book	Standard	1
35.	MCDR	Standard	1
36.	MCR	Standard	1
37.	Diagrams showing quarries, overhangs, fencing	Standard	1
38.	Samples of different types of rocks to be encountered	Standard	1

39.	Mines Act	Standard	1
40.	Systematic Support Plan (SSP)	Standard	1
41.	Systematic Support Rules (SSR)	Standard	1
42.	Self-rescue apparatus	Standard	1
43.	Line Diagram of Ventilation Circuit	Standard	1
44.	Alcohol based sanitisers	Standard	1
45.	Gas Detector	Standard	1
46.	Self-Contained Breathing Apparatus	Standard	1
47.	Diagrams of Armoured face conveyor	Standard	1
48.	Charts of coal mines occupational diseases	Standard	1
49.	CMR	Standard	1
50.	MMR	Standard	1
51.	MRR	Standard	1
52.	Company's Safety Management Plan (SMP)	Standard	1
53.	Emergency Management Plan (EMP)	Standard	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Whiteboard, Pin Up boards, Demonstration Table
2. LCD Projector
3. Computer/Laptop with Internet
4. Trainer Chair and Table
5. Whiteboard markers

Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.	Alxa Chemical	Madan Singh Gujar	Proprietor	PLOT-26, JAYNARAYANPURI, NIWARU ROAD, JHOTWARA, JAIPUR, RAJASTHAN-302012	9829094130	alxachemical@gmail.com	
2.	Caltex Mining Pvt Ltd	Kartik Paul	Executive	8A, Rajmohan Street, 3rd Floor, Kolkata - 700 073	09874388894	caltexminingit@rediffmail.com	
3.	East India Minerals Limited	Pushpak Mishra	GM (Commercial)	6, Waterloo St, Esplanade, Chowringhee North, Bow Barracks, Kolkata, West Bengal 700069	9830059283	pushpak_mishra@hotmail.com	
4.	GS Atwal and Co	Vikram Dewan	Purchase Head	4B, Little Russel St, Kankaria Estates, Park Street area, Kolkata, West Bengal 700071	9830595259	gsengineers@gmail.com	
5.	Integrated Coal and Mining Limited (ICML)	Niladri Topodar	Assistant Manager (HR/IR)	Hindustan Colas, 6, Church Ln, B.B.D. Bagh, Kolkata, West Bengal 700001	9830987657	nilidri.topodar@rpgs.com	
6.	Maheshwari Mining Pvt. Ltd	Jayram Koushik	VP	Shilpangan, Block - LB, Plot-1, Sector-III, Module - 1, 4th Floor, CF Building, Salt Lake, Kolkata - 700098	9810706023	jayaram.koushik@maheshwaree.com	
7.	Amnex	Abhijit Anand	Group Head	Mondeal Heights, Wing-B, 1201/1202/1301,	97277 47451	info@amnex.com	

				Sarkhej - Gandhinagar Hwy, Ahmedabad, Gujarat: 380015			
8.	Jindal Steel & Power	Vivek Gupta	Corporate Head	Jindal Centre 12, Bhikaiji Cama Place, New Delhi - 110 066, INDIA	91 11 26188340-50	info@jindalsteel.com	
9.	Naaraayani	Khurshid Alam	Managing Partner	A1/3 Umesh Enclave, Main Road, Adityapur, Dist- Saraikela-Kharswan, Jharkhand- 831013	6767351080	info@naaraayani.com	
10.	Mine Magma	M Manjunath Reddy	Proprietor	131, 2nd Floor, 1st Main, 2nd Stage, Kengeri Satellite Town, (Beside Corporation Bank), Bangalore - 560 060	99867 07359	contact@minemagma.com	
11.	JSW Cement	Tinu Sule	Group Head - HR	JSW Centre Bandra Kurla Complex, Near MMRDA Grounds, Bandra East, Mumbai 400 051	1800 266 266 1	info@jswcement.in	
12.	BGR Mining and Infra Ltd	Veepasha Kulkarni	Head BU HR	BGR Mining & Infra Ltd. #8-2-596/R, Road No.10, Banjara Hills, Hyderabad, Telangana, India - 500034	+91 40 23351932	careers@bgrmining.com	

13.	Saurashtra Cement Limited	G.M Trivadi	Gen. Manager (P & HRD)	Saurashtra Cement Limited Off Veraval Kodinar Highway Sidheeegram - 362 276 Taluka Sutrapada Distr. Junagadh (Gujarat)	02876 - 268200 / 02876 - 308200 / 286530 - 34	pralhad@mehtagroup.com	
14.	Dalmia Bharat Cement	Avnvs Murthy	Unit Head- Ariyalur unit	Dalmia Bharat Group, 11th & 12th Floor, Hansalaya Building, 15 Barakhamba Road, New Delhi 110001	+91 11 23465100	corpcomm@dalmiabharat.com	
15.	ACC LIMITED	G. Srivastava	HR Head	Adani Corporate House Shantigram, S. G. Highway, Khodiyar, Ahmedabad - 382 421, Gujarat, India	+91 79-2555 5555	accchelp@adani.com	
16.	VPR	K Vijay Kumarj	DGM-HR	D.No.8-2-293/82/A/1259, 3rd Floor, Plot No.1259, Lakshmi Towers, Road No.36, Jubilee Hills, Hyderabad - 500 033 Telangana	040 - 23551862/63	info@vprmininginfra.com	
17.	Rungta Mines Limited	G Vidhyanathan	Group Head Mining division	RUNGTA MINES LIMITED is 8A EXPRESS TOWER, 42A SHAKESPEARE SARANI , KOLKATA, West Bengal, India - 700017.	+91 (06553) 226846	INFO@THERUNGTAGROUP.COM	

18.	Elixir Engineering	H P Rajesh Rao	HR General Manager	6, 1st Floor, SFHS Shopping Area, Nandini Layout, Bangalore - 560 096.	91-8023196645	info@elixirengineering.com/elixireng@gmail.com	
19.	Shyam Metalic	Birendra Kumar	Assistant General Manager	Tower 7th Floor, Trinity, 83, E Topsia Rd, Kolkata, West Bengal 700046	1800 202 2233	contact@shyamgroup.com	
20.	Sainik Mining and Allied Services Ltd.	Lokendra Sethi	Plant Head	7th Floor, Corporate Tower, Ambience Mall NH-8, Gurgaon - 122001, Haryana	+91 124-2719000	info@sainikmining.com	
21.	Thriveni Sainik	Swathi Sinha	Corporate Communication & HR Head	Barwadih Coal Mining Project, Langatu, Barkagaon, Hazaribag - 825311, Jharkhand, India	91 6546-223115	info@thrivenisainik.com	

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025-26	50	50	12	12	Not applicable	Not applicable

2026-27	70	70	17	17	Not applicable	Not applicable
2027-28	80	80	20	20	Not applicable	Not applicable

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
2.0	2022-23	08	16	09	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable
2.0	2023-24	58	30	37	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable
2.0	2024-25	50	12	50	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1. Industry funded (NON-PMKVY)
2. PMKVY 4.0

Content availability for previous versions of qualifications:

☒ Participant Handbook ☒ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available: English and Hindi

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET "Guidelines for Blended Learning for Vocational Education, Training & Skilling" available on:

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
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1	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge	- Books/ e-books - Presentations - Reference Material - Audio / Video Modules	Only Offline. Online only on exceptional cases.
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	- Self-Learning Videos - Broadcasts - Mobile Learning - Curated Digital content	Only Offline. Online only on exceptional cases.
3	☐ Showing Practical Demonstrations to the learners	- Video Content - E-Resource library - AR/ VR/ XR	Only Offline
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	- Training tools (tools list attached) - Video Play - Presentations	Only Offline
5	☐ Tutorials/ Assignments/ Drill/ Practice	- Online Question Bank - Mobile Quick test app - MCQ based tests	Only Offline. Online only on exceptional cases.
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	- Assessment engine for Essays - Up-loadable file examinations - Mock test sessions	Tablet based/Online
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	- Online tests - Offline assessments	Only Offline

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MIN/N1211: Supervise mineral production at point of extraction	Protect personnel working in vicinity of mineral production faces	11	27	-	11
	PC1. oversee end-to-end mining operations and follow the duties of a Mining Mate as mentioned in the regulations by DGMS	1	2	-	1
	PC2. check if he finds any person in a place other than the one assigned to him, may communicate the same to that person, and shall forth with report the matter	-	1	-	-

PC3. observe if any inexperienced person is employed on any work except under the supervision of an experienced person and report the same to the superior	1	2	-	1
PC4. report to superior official any deficiency in timber, appliances and other necessities required for the safe working of the district	-	1	-	-
PC5. take care that any dangerous operation is carried out with due precaution, and in such cases shall be present throughout whenever any work of clearing falls of ground and setting of supports there in is being carried out	-	1	-	-
PC6. ensure not to leave the district under his charge until the end of the shift or until relieved by a duly appointed substitute	1	2	-	1
PC7. check if the mine is worked by a continuous succession of shifts, shall, before leaving his district, confer with the sirdar or competent person succeeding him, and shall acquaint him with all matters requiring personal attention and give such other information as maybe necessary for the safety of his district and of the persons employed there in	1	2	-	1
PC8. monitor, record and control the number of persons in respective area of responsibility	-	1	-	-
PC9. observe that staff working within the area of responsibility gets aware if any hazardous situation has occurred and knows the appropriate action to be taken to inform others without jeopardizing the safety of self	1	2	-	1
PC10. carry out checks on the competency of persons employed in mineral extracting	1	2	-	1
PC11. communicate with staff to position them appropriately in order to prevent contact with moving plant/equipment/machine parts	-	1	-	-
PC12. observe the usage of appropriate personal protective equipment	1	2	-	1
PC13. check to ensure personnel are not exposed to excessive work hazards (e.g. Vibration, hazardous substances)	1	2	-	1
PC14. observe that manual handling tasks are minimized by the use of mechanical lifting devices.	1	2	-	1
PC15. confirm checks on safety devices have been carried out	1	2	-	1
PC16. identify problems (e.g. obstructions, geological movements, mechanical or service failure)and report to the appropriate person for advice or repair/remedial action	1	2	-	1

	Oversee mineral extraction	7	11	-	4
	PC17. monitor the operational cycle and all relevant operations within area of responsibility/specific district	1	2	-	1
	PC18. check if the material needs for the production unit are met using material transport system and report in case of any inconsistencies	1	2	-	1
	PC19. co-ordinate face operations to maintain a true line of advance or retreat to prevent excessive face creep.	1	2	-	1
	PC20. oversee the immediate advance and setting of support (temporary/permanent) to combat poor roof conditions/face conditions and supervise the application of the support rules	1	2	-	1
	PC21. check the dressing of exposed ground	1	1	-	-
	PC22. co-ordinate work operations to ensure that each ongoing activity does not affect the activities, health, and safety of others within your sphere of responsibility	1	1	-	-
	PC23. complete records/reports according to legislative requirements and organizational procedures	1	1	-	-
	Oversee inspection and maintenance of mineral production faces and associated equipment	12	12	-	5
	PC24. check that all haulage, storage, purification, and distribution work is performed efficiently and in compliance with statutory and other regulations	1	1	-	1
	PC25. monitor that all traveling roadways to, and working places in, his district are made and kept secure	1	1	-	1
	PC26. check to ensure fire hydrants and/or other firefighting equipment is correctly sited, installed, undamaged, and, fit for purpose in accordance with regulatory requirements and organizational procedures and operational requirements	1	1	-	1
	PC27. implement isolation and lock-off procedures for plant/equipment as required for adjustments or routine or forced maintenance	1	1	-	-
	PC28. oversee planned maintenance of respirable/combustible dust suppression equipment	1	1	-	-

	PC29. confirm that all safety devices fitted to mineral extraction and clearance system/s are in place and operational	1	1	-	-
	PC30. confirm that all service pipes, hoses, high tension cables, and trailing cables are identified, color-coded, stored correctly and have appropriate safety devices attached	1	1	-	1
	PC31. check that services system (e.g. Cable handling devices) are supported, free moving and have sufficient storage to allow safe face advance/retreat	1	1	-	-
	PC32. confirm that girder cradles/integrated working platforms associated with setting supports are available and in good order	1	1	-	-
	PC33. confirm that support installations/extraction systems/materials handling/mineral processing machinery/equipment are serviced/maintained in accordance with manufacturers/compa procedures	1	1	-	1
	PC34. check that suitable and sufficient repairs have been carried out safely on damaged/faulty items of mineral extraction equipment	1	1	-	-
	PC35. carry out organisational procedures for defects found that cannot be rectified immediately.	1	1	-	-
Total Marks		30	50	-	20
MIN/N1212: Oversee the safety of the mining operations	<i>Carry out monitoring and analysis</i>	13	22	-	7
	PC1. make such inspection and reports as are required by the various applicable regulations, and in making such examination, shall pay particular attention to edges of the go for checking supports	3	5	-	2
	PC2. take appropriate steps to handle the dangerous situations observed during the inspection, as per the requirement	3	5	-	2
	PC3. carryout the provisions as per regulations, in case any accumulation of inflammable or noxious gases is found	2	4	-	1
	PC4. proceed at once to the place of accident (on receipt of information of an accident met by any person in his district), inspect the place and,	3	4	-	1

	if required, supervise the rescue operations, and shall report or send notice of the accident to the mine manager				
	PC5. complete records/reports according to legislative requirements and organisational procedures	2	4	-	1
	<i>Protection and Sustenance of a safe working environment</i>				
	PC6. check that equipment provided to prevent friction ignitions/drain gas are in place and working in accordance with statutory, company and manufacturers specifications	2	4	-	1
	PC7. check ventilation system is operational within organisational limits	2	4	-	2
	PC8. check that the gas/smoke monitoring/detection equipment is correctly Positioned and operational	2	4	-	2
	PC9. operate and interpret readings from gas detection/monitoring equipment	3	4	-	2
	PC10. check geological conditions are with in normal operational parameters	2	4	-	2
	PC11. monitor the operations of dusts suppression/ neutralization equipment Implement action to address any short comings arising in the ventilation system which may adversely affect the quality of the mine environment with in area of responsibility	3	4	-	2
	PC12. communicate environmental problems/short fall in quality of the mine environment outside your limits of responsibility to the relevant person/s according to organisational procedures	3	4	-	2
	Total Marks	30	50	-	20
MIN/N1213: Supervise Blasting Operation	<i>Supervise the preparation for the blast</i>	13	22	-	7
	PC1. check that the blast specification(s) are according to approved procedures and practices	1	2	-	-
	PC2. check that the changes to the blast specifications are in line with the defined requirements	1	2	-	-
	PC3. make arrangements for the delivery and receipt of sufficient, suitable materials to meet the blast specification.				

		1	2	-	-
	PC4. maintain the adequate security measures for on-site explosives are and ensure that the records are completed	2	3	-	1
	PC5. monitor the timely issue the explosives to relevant person(s) in accordance to approved practices and procedures	2	3	-	1
	PC6. carry out the checks to ensure activities involving the use, transportation and storage of explosives or explosive substances are carried out by relevant person(s)	2	2	-	1
	PC7. make the arrangements to ensure environmental controls are set up and monitored to meet local requirements	1	2	-	1
	PC8. identify and establish the blast sites according to approved procedures and practices.	1	2	-	1
	PC9. identify the potential risks and appropriate action taken to eliminate or minimise.	1	2	-	1
	PC10. identify and communicate the requirements for safety and security of the blast operations	1	2	-	1
	<i>Supervise firing of the blast</i>	11	16	-	8
	PC11. monitor the establishment of the checks and their conduct to confirm the blasts it conforms to the blast specification.	1	2	-	1
	PC12. check that the limits of the danger zone are confirmed and approved according to approved procedures and practices	1	2	-	1
	PC13. check that the tools and equipment are approved as safe and suitable to meet the blast specification	1	2	-	1
	PC14. check that the arrangements are made to ensure the removal of surplus explosives and the disposal of packaging.	1	2	-	1
	PC15. check that the position and form of the blast initiation site are confirmed and approved according to site operational procedures	1	2	-	1
	PC16. inspect that the checks are carried out to confirm warning and security arrangements are in place and operating according to approved procedures and practices	2	2	-	1

	PC17. ensure that the procedures are implemented to confirm evacuation of the danger area, and that visitors and contractors are indesignated areas	2	2	-	1
	PC18. review the work of the shotfirer to blast at an agreed time is given when operating and environmental conditions are confirmed assuitable according to approved procedures and practices	2	2	-	1
	<i>Confirm conclusion of the blast</i>	6	12	-	5
	PC19. maintain and store records in accordance with operational and organisational rules and procedures	1	2	-	-
	PC20. carry out the post-blast in spection according to approved procedures and practices	1	2	-	1
	PC21. ensure the approval of the post-blast remedial work according to operational procedures	1	2	-	1
	PC22. on completion of the blasting operation, ensure the removal of warning and security arrangements, and signal that the area is returned to normal operational status, according to approved procedures and practices	1	2	-	1
	PC23. monitor and record the over pressure and ensure their conform ancetolocal requirements	1	2	-	1
	PC24. monitor the site-specific shot firing rules and procedures and provide the relevant recommendations	1	2	-	1
	Total Marks	30	50	-	20
DGT/VSQ/N0102: Employability Skills (60 Hours)	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. identify employability skills required for jobs in various industries	-	-	-	-
	PC2. identify and explore learning and employability portals	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
	PC4. follow environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	2	4	-	-
	PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-

PC6. practice the 21st Century Skills such as Self- Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC9. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-
PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	2	-	-
PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	2	3	-	-
PC16. select financial institutions, products and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	3	4	-	-

	PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
	PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
	PC22. use basic features of word processor, spreadsheets, and presentations	-	-	-	-
	<i>Entrepreneurship</i>	2	3	-	-
	PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
	PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
	PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
	<i>Customer Service</i>	1	2	-	-
	PC26. identify different types of customers	-	-	-	-
	PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-
	PC28. follow appropriate hygiene and grooming standards	-	-	-	-
	<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
	PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
	PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
	PC31. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
	Total Marks	20	30	-	-
MIN/N1702: Follow Health, Safety and Environmental	<i>Follow work-site health and safety measures</i>	24	42	-	17
	PC1. undertake "The Take-5 (Personal Risk Assessment)" before commencement of any work	-	2	-	2

guidelines for Underground Metalliferous Mines	PC2. comply with safety, health and security- related regulations/guidelines at the mine e.g. follow Standard Operating Procedure (SOP) for material handling in underground (U/G) mine	1	3	-	-
	PC3. operate various types of fire extinguishers to control different types of fire at a worksite when required	1	4	-	1
	PC4. check that roof supporting is as per Systematic Support Plan (SSP) and approved Systematic Support Rules (SSR) while undertaking work in an area	1	1	-	-
	PC5. take precaution against occupational health hazards (like dust, water, mine gases etc.) due to U/G working environment	1	2	-	1
	PC6. use self-rescue apparatus, appropriately when required	-	4	-	1
	PC7. follow appropriate emergency response procedure during emergency such as fire, water inrush, fall of ground etc.	1	2	-	1
	PC8. follow precautions against U/G electrical appliances	2	2	-	2
	PC9. follow appropriate Standard Operating Procedure while working near any isolated and sealed off area of the mine	2	2	-	1
	PC10. follow appropriate safety practices while traveling on U/G haul roads, incase of post blast fumes and misfire	2	4	-	-
	PC11. follow the manufacturer's instructions for care and safe operation of mine machinery and equipment	1	2	-	1
	PC12. identify the working ventilation district from line diagram of ventilation circuit to direct air to the working face	1	1	-	-
	PC13. follow Safety Management Plan (SMP) and Emergency Management Plan (EMP)	1	-	-	-
	PC14. follow gas detecting alarm signal on leakage of inflammable gases and laid out procedure to ensure safety	1	2	-	1
	PC15. follow process for reporting any unsafe act/condition in work area to the concerned person	-	2	-	1
	PC16. use underground mine communication system	-	1	-	-
	PC17. ensure positive isolation near the work place if applicable	1	1	-	1

	PC18. use appropriate PPE as per the requirement	2	4	-	2
	PC19. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	1	1	-	1
	PC20. disinfect the machine/tools before and after work/task	1	1	-	-
	PC21. maintain hygiene at the work site	1	1	-	1
	PC22. report any symptoms of illness to the shift- incharge	1	-	-	-
	PC23. identify six directional hazards at workplace and take decisions accordingly	2	-	-	-
	<i>Follow environmental guidelines</i>	6	8	-	3
	PC24. identify the environmental impact of mining related operations and follow steps to reduce those impact	1	2	-	-
	PC25. follow the mineral conservation practices in U/G mining operations to achieve optimum ore or mineral recovery	-	1	-	-
	PC26. ensure that the stowing practices produce minimum disturbance to the surface	1	1	-	-
	PC27. ensure that the subgrade ore is carried out to surface and stacked separately at the earmarked place	1	-	-	1
	PC28. ensure the productivity of the machine for material/fuel conservation	1	1	-	-
	PC29. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in compliance with worksite guidelines	1	1	-	1
	PC30. follow the "5-S" practice at work site like cleaning oil from ground (to avoid soil from getting damaged), etc.	1	2	-	1
	Total Marks	30	50	-	20
MIN/N1703: Follow Health, Safety, and Environmental Guidelines for opencast mines	<i>Follow work-site health and safety measures</i>	20	34	-	15
	PC1. comply with safety, health, and security- related regulations/guidelines at the opencast mine	2	2	-	1

	PC2. follow the safety instructions given by the workman's inspector	1	3	-	1
	PC3. follow adequate safety while working at haul roads, heights, overburden dumps, sump area, stockyard, near moving parts, etc.	3	3	-	1
	PC4. take safety precautions while working on sites (sub-station, workshop etc.), with equipment, and conducting welding and cutting operations	1	3	-	1
	PC5. follow appropriate Safe Operating Procedure (SOP) while dealing with explosives	2	3	-	2
	PC6. respond promptly and appropriately to an accident/ incident or an emergency situation, within limits of the role and responsibility	2	3	-	1
	PC7. provide first aid to an injured person	2	3	-	1
	PC8. operate various types of fire extinguishers to control different types of fire at a worksite when required	1	3	-	1
	PC9. use appropriate PPE as per the requirement	2	4	-	2
	PC10. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	1	2	-	1
	PC11. disinfect the machine/tools before and after work/task	1	2	-	1
	PC12. maintain hygiene at the work site	1	1	-	1
	PC13. report any symptoms of illness to the shift- incharge	1	2	-	1
	<i>Follow Environmental guidelines</i>	10	16	-	5
	PC14. identify the environmental impact of related opencast mining operations	2	2	-	1
	PC15. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in compliance with worksite guidelines	1	2	-	1
	PC16. ensure not to mix topsoil with waste in day to day tasks	2	2	-	1
	PC17. ensure that HEMM is washed at the designated location	2	2	-	1
	PC18. ensure the productivity of the machine for material/fuel conservation	1	3	-	-

	PC19. follow the mineral conservation practices specified by the organization in accordance with MCDR-2017 (Mineral Conservation and Development Rules)	1	3	-	1
	PC20. assist supervisor for reducing environmental impact caused due to related mining operations	1	2	-	-
	Total Marks	30	50	-	20
MIN/N1704: Follow Health, Safety, and Environmental guidelines for underground coal mines (Including Mine Vocational Training Rule and Mine Rescue Rule)	<i>Follow work-site health and safety measures</i>	24	43	-	14
	PC1. follow preventive measures against firedamp, whitedamp, blackdamp etc.	1	1	-	-
	PC2. use the flame safety lamp for detecting the methane gas as per Standard Operating Procedure (SOP)	-	1	-	-
	PC3. undertake "The Take-5 (Personal Risk Assessment)" before commencement of any work	1	1	-	1
	PC4. comply with safety, health and security-related regulations/guidelines at the mine e.g. SOP for material handling in underground (U/G) mine	1	1	-	1
	PC5. ensure that oil, grease, canvas or other inflammable material are stored in fire-proof receptacle	-	1	-	-
	PC6. ensure that every instrument, apparatus and equipment are DGMS approved before these are used	1	1	-	-
	PC7. ensure that Armoured face conveyor (AFC) and chocks must be kept in a straight line for every cycle of operations and tightened up to the setting pressure while keeping it in full contact with the roof, applicable for longwall mining	3	3	-	-
	PC8. provide first aid to an injured person	1	2	-	1
	PC9. follow safety precautions against spontaneous heating of the coal	1	1	-	-
	PC10. operate various types of fire extinguishers to control different types of fire at worksite, if required	-	2	-	-
	PC11. ensure that no person is traveling/working/staying under unsupported roof	1	-	-	-
	PC12. check that roof supporting is as per Systematic Support Plan (SSP) and approved Systematic Support Rules (SSR) while undertaking work in an area	-	2	-	1

	PC13. take precaution against occupational health hazards (like dust, water, mine gases etc.) due to U/G working environment	-	1	-	1
	PC14. use self-rescue apparatus appropriately when required	-	2	-	-
	PC15. follow Safety Management Plan (SMP) and Emergency Management Plan (EMP)	1	2	-	1
	PC16. follow precautions against U/G electrical appliances	2	2	-	1
	PC17. take proper care against damage and accidents while loading, transporting, dismantling and erecting of roof supports	1	2	-	-
	PC18. follow appropriate SOP while working near any isolated and sealed off area of the mine	1	1	-	1
	PC19. ensure that the roof and the sidewalls of the mine face (or newly exposed area of the mines) have been scaled/dressed properly	1	1	-	-
	PC20. take relevant safety precautions during depillaring operation in UCM	-	2	-	1
	PC21. follow appropriate safety practices while traveling on U/G haul roads, incase of post blast fumes and misfire	1	1	-	-
	PC22. follow the manufacturer's instructions for care and safe operation of mine machinery and equipment	-	1	-	1
	PC23. identify the working ventilation district from line diagram of ventilation circuit to direct air to the working face	-	1	-	1
	PC24. follow laid out SOP in case of alarm signal for leakage of inflammable gases	1	1	-	-
	PC25. follow the process of reporting any unsafe act/condition in the working area to the concerned person	-	1	-	1
	PC26. use underground mine communication system	-	1	-	-
	PC27. ensure positive isolation near the work place if applicable	1	1	-	-
	PC28. use appropriate Personal Protective Equipment (PPE) as per the requirement	2	2	-	1
	PC29. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	-	1	-	-
	PC30. disinfect the machine/tools before and after work/task	1	1	-	-

PC31. maintain hygiene at the work site	1	1	-	-
PC32. report any symptoms of illness to the shift- incharge	1	1	-	-
PC33. identify six directional hazards at workplace and take decisions accordingly	-	1	-	1
<i>Follow environmental guidelines</i>	6	7	-	6
PC34. identify the environmental impact of mining related operations and follow steps to reduce those impact	1	1	-	1
PC35. follow the mineral conservation practices in U/G mining operations to achieve optimum ore or mineral recovery	1	1	-	1
PC36. ensure that the stowing practices produce minimum disturbance to the surface	1	1	-	-
PC37. ensure that the subgrade coal is carried out to surface and stacked separately at the earmarked place	1	1	-	1
PC38. ensure the productivity of the machine for material/fuel conservation	1	1	-	1
PC39. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in compliance with worksite guidelines	-	1	-	1
PC40. follow the "5-S" practice at work site like cleaning oil from ground (to avoid soil from getting damaged), etc.	1	1	-	1
Total Marks	30	50	-	20
Grand Total	200	330	-	120

Annexure: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

Mention the detailed assessment strategy in the provided template.

Assessment system Overview: -

Assessment will be carried out by SCMS affiliated assessment partners. Based on the results of assessment, SCMS certifies the learners. Candidates have to pass online theoretical assessment which is approved by SCMS.

The assessment will have both theory and practical components in 30:70 ratio.

While theory assessment is summative and an online written exam; practical will involve demonstrations of applications and presentations of procedures and other components. Practical assessment will also be summative in nature.

Testing Environment: -

Training partner has to share the batch start date and end date, number of trainees and the job role.

Assessment is fixed for a day after the end date of training. It could be next day or later. Assessment will be conducted at the training venue. Question bank of theory and practical will be prepared by assessment agency and approved by SCMS. From this set of questions, assessment agency will prepare the question paper. Theory testing will include multiple choice questions, pictorial question, etc. which will test the trainee on theoretical knowledge of the subject.

The theory and practical assessments will be carried out on same day. If numbers of candidates are many, more assessors and venue will be organized on same day of the assessment.

Assessment			
Assessment Type	Formative or Summative	Strategies	Examples
Theory	Summative	Written Examination	Knowledge of facts related to the job role and functions. Understanding of principles and concepts related to the job role and functions
Practical	Summative	Structured tasks	Presentation
Viva	Summative	Questioning and Probing	Mock interview on topics

Assessment Quality Assurance framework

Only certified assessor can be assigned for conducting assessment. Provision of 100 % video recording with clear audio to be maintained and the same is to be submitted to SCMS.

The training partner will intimate the time of arrival of the assessor and time of leaving the venue.

Methods of Validation: -

Unless the trainee is registered, the person cannot undergo assessment. To further ensure that the person registered is the person appearing for assessment, id verification will be carried out. Aadhar card number is required of registering the candidate for training. This will form the basis of further verification during the assessment. Assessor conducts the assessment in accordance with the assessment guidelines and question bank as per the job role. The assessor carries tablet with the loaded questions. This tablet is geo tagged and so it is monitored to check their arrival and completion of assessment. Video of the practical session is prepared and submitted to SCMS. Random spot checks/audit is conducted by SCMS assigned persons to check the quality of assessment. Assessment agency will be responsible to put details in SIP. SCMS will also validate the data and result received from the assessment agency.

Method of assessment documentation and access

The assessment agency will upload the result of assessment in the portal. The data will not be accessible for change by the assessment agency after the upload. The assessment data will be validated by SCMS assessment team. After upload, only SCMS can access this data. SCMS approves the results within a week and uploads on SIP.

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above.