



QUALIFICATION FILE

Loader Operator (Mining)

- 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: 3

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	Loader Operator (Mining)																			
2.	Sector/s	Mining																			
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: 2022/MIN/SCMS/06978 & Version 2.0	Qualification Name of existing/previous version: Loader Operator (Mining)																		
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	Not Applicable																			
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-03-MG-04059-2025-V2-SCMS & Version 3.0	6. NCrF/NSQF Level: 3																		
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Not Applicable																			
8.	Brief Description of the Qualification	The Loader operator uses the Loader - O/C (Opencast mines) for moving aside or loading ROM (Run-Of-Mine), product etc, into or onto different types of machinery (such as dumper/tipper, conveyor belt, feed-hopper etc.).They also ensure that the safety systems are working correctly and perform essential maintenance on the Loader.																			
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 50%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 40%;">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>10th grade pass (or equivalent)</td> <td style="text-align: center;">-</td> </tr> <tr> <td>2.</td> <td>9th grade pass</td> <td>1.5 years' relevant experience in Mining Industry</td> </tr> <tr> <td>3.</td> <td>8th grade pass</td> <td>3 years' relevant experience in Mining Industry</td> </tr> <tr> <td>4.</td> <td>5th grade pass</td> <td>7.5 years' relevant experience in Mining Industry</td> </tr> <tr> <td>5.</td> <td>Previous relevant Qualification of NSQF Level 2: Helper-Opencast Mines</td> <td>3 years relevant experience in Mining Industry</td> </tr> </tbody> </table> b. Age: 20 Years		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	10 th grade pass (or equivalent)	-	2.	9 th grade pass	1.5 years' relevant experience in Mining Industry	3.	8 th grade pass	3 years' relevant experience in Mining Industry	4.	5 th grade pass	7.5 years' relevant experience in Mining Industry	5.	Previous relevant Qualification of NSQF Level 2: Helper-Opencast Mines	3 years relevant experience in Mining Industry
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1.	10 th grade pass (or equivalent)	-																			
2.	9 th grade pass	1.5 years' relevant experience in Mining Industry																			
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4.	5 th grade pass	7.5 years' relevant experience in Mining Industry																			
5.	Previous relevant Qualification of NSQF Level 2: Helper-Opencast Mines	3 years relevant experience in Mining Industry																			

10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	13	11. Common Cost Norm Category (I/II/III) (wherever applicable): I																					
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	Preferable Heavy Motor Vehicle Driving License																						
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>130:00</td> <td>260:00</td> <td>-</td> <td>-</td> <td>390:00</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p>					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	130:00	260:00	-	-	390:00	Online	-	-	-	-	-
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	130:00	260:00	-	-	390:00																			
Online	-	-	-	-	-																			
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/8342.0301																						
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	NSQF Level 4.0 (Vertical)-Shovel Operator (to be developed)																						
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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No URLs of similar Qualifications: https://www.nqr.gov.in/qualifications/10978 Loader Operator (Mining) qualification caters to the requirement of the mining while the qualification in the link above caters to the Infrastructure sector. Hence, this qualification is required.																						
18.	Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MIN/N1703																						
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																						
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	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: 6 May 2025	24. Validity Duration: 3 Years	25. Next Review Date: 6 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/NSQF 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.	Prepare the Loader for operations	MIN/N1409 & V2.0	Core	3	3	30:00	60:00	-	-	90:00	30	50	-	20	100	15
2.	Perform Loader Operations	MIN/N1410 & V2.0	Core	3	4	20:00	100:00	-	-	120:00	30	50	-	20	100	30
3.	Perform basic maintenance and troubleshooting of the Loader	MIN/N1411 & V2.0	Core	3	2	20:00	40:00	-	-	60:00	30	50	-	20	100	15
4.	Carry out reporting and documentation related to the Loader Operation	MIN/N1412 & V2.0	Core	3	1	10:00	20:00	-	-	30:00	30	50	-	20	100	10
5.	Follow Health, Safety, and Environmental guidelines for opencast mines	MIN/N1703 & V3.0	Core	1	2	20:00	40:00	-	-	60:00	30	50	-	20	100	20
6.	Employability Skills (30 Hours)	DGT/VSQ/N0101 & V1.0	Core	2	1	30:00	00:00	-	-	30:00	20	30	-	-	50	10
Duration (in Hours) / Total Marks					13	130:00	260:00	-	-	390:00	170	280	-	100	550	100

Elective NOS/s: Not Applicable

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

Optional NOS/s: Not Applicable

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks				
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total
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) (as per NCVET guidelines)	Class 10 th pass with 6 years of relevant experience required in opencast mine loader operations. OR ITI pass with 6 years of relevant experience required in opencast mine loader operations.
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		<p>OR Diploma (Mining/ Mechanical) with 5 years of relevant experience required in opencast mine loader operations. OR Graduation (B-Tech in Mining / Mechanical) with 4 years of relevant experience required in opencast mine loader operations. OR CITS-NCIC (Machinist & Operator, Advance Machine Tool) with 1 year of relevant experience required in opencast mine loader operations. AND Certified for Job role “Loader Operator (Mining)” and Job Role “Trainer (VET and Skills)” with minimum accepted score of 80% in each.</p>
2.	Master Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<p>Class 10th pass with 6 years of relevant experience required in opencast mine loader operations. OR ITI pass with 6 years of relevant experience required in opencast mine loader operations. OR Diploma (Mining/ Mechanical) with 5 years of relevant experience required in opencast mine loader operations. OR Graduation (B-Tech in Mining / Mechanical) with 4 years of relevant experience required in opencast mine loader operations. OR CITS-NCIC (Machinist & Operator, Advance Machine Tool) with 1 year of relevant experience required in opencast mine loader operations. AND Certified for Job role “Loader Operator (Mining)” and Job Role “Master Trainer (VET and Skills)” with minimum accepted score of 90% in each.</p>
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If “Yes”, details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	The trainers need to get updated for 30 Hours Employability Skills NOS.

Section 4: Assessment Related

1.	Assessor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	<p>Class 10th pass with 8 years of relevant experience required in opencast mine loader operations. OR ITI pass with 8 years of relevant experience required in opencast mine loader operations. OR Diploma (Mining/Mechanical) with 7 years of relevant experience required in opencast mine loader operations.</p>
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		<p>OR Graduation (B-Tech in Mining / Mechanical) with 6 of relevant experience required in opencast mine loader operations. OR CITS-NCIC (Machinist & Operator, Advance Machine Tool) with 1 year of relevant experience required in opencast mine loader operations. AND Certified for Job role “Loader Operator (Mining)” and Job Role “Assessor (VET and Skills)” with minimum accepted score of 80% in each.</p>
2.	Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	<p>Class 10th pass with 6 years of relevant experience required in opencast mine loader operations. OR ITI pass with 6 years of relevant experience required in opencast mine loader operations. OR Diploma (Mining/ Mechanical) with 5 years of relevant experience required in opencast mine loader operations. OR Graduation (B-Tech in Mining / Mechanical) with 4 years of relevant experience required in opencast mine loader operations. OR CITS-NCIC (Machinist & Operator, Advance Machine Tool) with 1 year of relevant experience required in opencast mine loader operations. AND Certified for Job role “Loader Operator (Mining)” and Job Role “Trainer (VET and Skills)” with minimum accepted score of 80% in each.</p>
3.	Lead Assessor’s/Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	<p>Class 10th pass with 8 years of relevant experience required in opencast mine loader operations. OR ITI pass with 8 years of relevant experience required in opencast mine loader operations. OR Diploma (Mining/Mechanical) with 7 years of relevant experience required in opencast mine loader operations. OR Graduation (B-Tech in Mining / Mechanical) with 6 of relevant experience required in opencast mine loader operations. OR CITS-NCIC (Machinist & Operator, Advance Machine Tool) with 1 year of relevant experience required in opencast mine loader operations. AND Certified for Job role “Loader Operator (Mining)” and Job Role “Lead Assessor (VET and Skills)” with minimum accepted score of 90% in each.</p>

4.	Assessment Mode (<i>Specify the assessment mode</i>)	Tablet based/ Online
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> 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: 3000
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 (<i>Mandatory</i>)	<i>Attached</i>
2.	Annexure: List of tools and equipment relevant for qualification (<i>Mandatory, except in case of online course</i>)	<i>Attached</i>
3.	Annexure: Detailed Assessment Criteria (<i>Mandatory</i>)	<i>Attached</i>
4.	Annexure: Assessment Strategy (<i>Mandatory</i>)	<i>Attached</i>
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is "Blended Learning"</i>)	<i>Not Applicable</i>
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	<i>Filled</i>
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	<i>Filled</i>
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	<i>Attached</i>

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	This job requires the individual to concentrate on the job at hand and complete it efficiently and effectively without any accidents so diligence and hard-working are desired attributes for individuals in this role. The individual must possess quick reflexes and reaction time.	The Loader operator uses the Loader (a heavy vehicle) for moving aside or loading ROM (Run-Of-Mine), product etc., into or onto different types of machinery (such as dumper / tipper, conveyor belt, feedhopper etc.).	3
Professional and Technical Skills/ Expertise/ Professional Knowledge	Different types of loader (bucket loader, front loader, front-end loader, pay-loader, scoop, shovel, skip loader, or wheel loader) and their specific uses. About petrol and diesel engines, their components and functions, steering and transmission systems, different types of hydraulic mechanisms, service brakes and parking brakes, Instrument panel, their location and operation, knowledge of wheels, tyres, optimal pressure.	Check daily fitness of the vehicle i.e. vehicle aggregates and assemblies, including steering mechanisms, service brakes and parking brakes, alarms and signalling devices, instrument panel, controls, levers and switches, correct oil pressures and temperatures etc. in respect of Health and Safe	3
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Correct maintenance procedures for Loader, response to emergencies e.g. correct way to use fire extinguisher. Fill out checklist /maintenance logbooks detailing maintenance activities conducted. Track machineoperating hours to assess the right service schedule. Ensure the machine is on firm and level ground before attempting to carry out any maintenance activity. Ensure that no maintenance task on the engine performed when running or still hot.	Provide full attention for production work in given time and make decisions pertaining to the concerned area of work. Detect problems in day by day tasks and able to resolve them. Also able to make decision in emergency condition.	3
Broad Learning Outcomes/Core Skill	Load the ROM, blasted material on required machinery for hauling the load, by using the controls and levers of loader, carefully.	Records and note down the routine work and observation and comply task list related to safety aspect such as fire-fighting process, handling	3

		Explosive safely, control dust on hual road etc. and notify the same to senior. Hence, Communication written and oral, with minimum required clarity, skill of basic arithmetic and algebraic principles are required.	
Responsibility	A Loader operator drives and operates a Loader which is a heavy vehicle that is used in mines to move aside or load ROM, product etc. into or onto another type of machinery (such as a dump truck, conveyor belt, feed-hopper etc. Using a loader is a specialized task that can be safely performed with some training and experience. Safety is extremely critical to avoid property damage and personal injury. Operators are also responsible for performing basic maintenance on the Loader.	Works independently as per the instruction of supervisor/ Shift Incharge/Mines Manager	3

Annexure: Tools and Equipment (Lab Set-Up)

(It can change as per Industry requirements)

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.	Loader	Standard	1
3.	Vehicle Driver Tool Box	Standard	1
4.	Safety Helmet	Standard	15
5.	Dust Mask	Standard	15
6.	Safety Goggles	Standard	15
7.	Ear Plug	Standard	15
8.	Hand Gloves	Standard	15
9.	Safety Shoes	Standard	15

10.	Slide wrench	Standard	15
11.	Loader simulator	Standard	1
12.	Spanner Set	Standard	1
13.	Pre-check list format	Standard	1
14.	Grease Can	Standard	1
15.	Grease Gun	Standard	1
16.	Log books	Standard	1
17.	Reflective Jacket	Standard	1
18.	Posters of tools	Standard	1
19.	Poster of "5-S"	Standard	1
20.	Poster of Loader (describing the components)	Standard	1
21.	Grinder	Standard	1
22.	Sanders	Standard	1
23.	Impact Wrench	Standard	1
24.	Chain Sling	Standard	1
25.	Rope Sling	Standard	1
26.	Hook	Standard	1
27.	Shackle	Standard	1
28.	Swivel	Standard	1
29.	Coupling	Standard	1
30.	Socket	Standard	1
31.	Clamp	Standard	1

32.	Tray	Standard	1
33.	Chain Pulley	Standard	1
34.	Sample of engine oil	Standard	1
35.	Poster showing brake system	Standard	1
36.	Poster showing cooling system	Standard	1
37.	CPR Chart	Standard	1
38.	Sanitizers	Standard	1
39.	Soap	Standard	1
40.	Disinfectants	Standard	1
41.	"5-S" poster	Standard	1
42.	Poster related to occupational health diseases	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. Tables
6. Whiteboard markers

Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
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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, Sarkhej - Gandhinagar Hwy, Ahmedabad, Gujarat: 380015	97277 47451	info@amnex.com	
8.	Jindal Steel & Power	Vivek Gupta	Corporate Head	Jindal Centre 12, Bhikaiji Cama Place,	91 11 26188340- 50	info@jindalsteel.com	

				New Delhi - 110 066, INDIA			
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	acchelp@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	
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NSQC Approved

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates	Women	People with Disability
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	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025-26	500	500	125	125	Not applicable	Not applicable
2026-27	1000	1000	250	250	Not applicable	Not applicable
2027-28	1500	1500	375	375	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	144	170	148	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable
2.0	2023-24	73	49	48	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable
2.0	2024-25	779	779	774	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:

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	<input checked="" type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	<ul style="list-style-type: none"> • Books/ e-books • Presentations • Reference Material • Audio / Video Modules 	Only Offline. Online only on exceptional cases.
2	<input checked="" type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	<ul style="list-style-type: none"> • Self-Learning Videos • Broadcasts • Mobile Learning • Curated Digital content 	Only Offline. Online only on exceptional cases.
3	<input checked="" type="checkbox"/> Showing Practical Demonstrations to the learners	<ul style="list-style-type: none"> • Video Content • E-Resource library • AR/ VR/ XR 	Only Offline
4	<input checked="" type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	<ul style="list-style-type: none"> • Training tools (tools list attached) • Video Play • Presentations 	Only Offline
5	<input checked="" type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	<ul style="list-style-type: none"> • Online Question Bank • Mobile Quick test app • MCQ based tests 	Only Offline. Online only on exceptional cases.
6	<input checked="" type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	<ul style="list-style-type: none"> • Assessment engine for Essays • Up-loadable file examinations • Mock test sessions 	Tablet based/Online
7	<input checked="" type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	<ul style="list-style-type: none"> • 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/N1409: Prepare the Loader for operations	<i>Conducting pre-operation checks and routine maintenance of the Loader</i>	26	44	-	20
	PC1. follow the work related instructions given by the supervisor before the shift starts	2	2	-	1
	PC2. check oil levels of engine, transmission, differential, hydraulic tank etc. and top up as required	2	2	-	1
	PC3. check water level in the radiator and top up as required	1	2	-	1
	PC4. confirm availability and functionality of safety features in the Loader like audiovisual alarm, reverse camera, mirrors, horn, seat belt, Roll-Over Protection Structure (ROPS) and Falling Object Protective Structure (FOPS)	1	2	-	1
	PC5. check fan belt tension, electrolyte level and batteries' terminal tightness	1	2	-	1
	PC6. clean the Loader and outer element of air cleaner with compressed air	1	2	-	1
	PC7. apply grease to all the required parts	1	2	-	1
	PC8. drain accumulated water from the diesel tank	1	2	-	1
	PC9. check air pressure in tyres for tyre mounted Loader and track's tension for track mounted Loader and take action as required	2	2	-	1
	PC10. take action as per the entries done by the previous operator in the Loader logbook	1	2	-	1
	PC11. check for any spills/leakages in the engine, hydraulic systems, transmission etc.	1	2	-	1
	PC12. plug spill, leakage of oil and lubricants and escalate to appropriate authority if unable to rectify	1	2	-	1
	PC13. check functioning of fire extinguishers, automatically operated fire suppression system and devices including fire detection system in the Loader	1	2	-	1
	PC14. clean air filter dust bowls	1	2	-	1
	PC15. check the gasket and inner filter element	1	2	-	1
	PC16. inspect the body components like Loader's frame and arm for any cracks or wear and tear	1	1	-	1
	PC17. check the bucket cutting edge and the bucket for excessive damage, if any	1	2	-	-
PC18. inspect all mounting bolts , pivot pins and ram pins	1	2	-	1	

	PC19. clean any muck, soil or debris from the area around the slewing rams	1	3	-	-
	PC20. examine the various controls, gauges, warning lamps	2	2	-	1
	PC21. check and adjust driving position, rear and side mirrors, seat belts and confirm clear uninterrupted vision all around	1	2	-	1
	PC22. inspect the work site before commencement of operation	1	2	-	1
	<i>Recording and reporting the details of Loader's pre- operation inspection and maintenance</i>	4	6	-	-
	PC23. update the operation and maintenance log book with activities conducted before starting the Loader	2	3	-	-
	PC24. inform the supervisor of those problems which are not under one's purview	2	3	-	-
	Total Marks	30	50	-	20
MIN/N1410: Perform Loader Operations	<i>Starting and driving the Loader</i>	20	32	-	12
	PC1. use Loader in an optimum way as per the instruction manual	2	2	-	1
	PC2. start the engine by using push button and key switch together	2	2	-	1
	PC3. use the priming pump and pre-heater to start the engine in cold weather conditions	2	3	-	1
	PC4. ensure that no other operators travel on or stand near the Loader	1	3	-	1
	PC5. check backhoe/ front hoe is in transport position while the loader is moving	2	3	-	1
	PC6. select correct gear range by shifting the quadrant device	1	3	-	1
	PC7. inspect critical temperature and pressure gauges during driving	1	3	-	1
	PC8. use various signalling devices available in the Loader such as turn signal, parking indicator, air horn etc. as per requirement	2	3	-	1
	PC9. keep a safe distance from the tip edge and use an approved stop block/safety parapet before tipping over an edge	2	3	-	1
	PC10. park the Loader safely and appropriately	2	3	-	1
	PC11. select and use the right kind of brake in different situations and working conditions	2	2	-	1
	PC12. stop the engine of Loader by following Standard Operating Procedure (SOP)	1	2	-	1
	<i>Perform various other Loader operations</i>	10	18	-	8
	PC13. follow manufacturer's instructions for safe operation and durability of the Loader	1	2	-	1
PC14. deploy the digger stabilizer legs to level the Loader when working on a slope	1	2	-	1	

	PC15. maintain stability and anchorage during digging operation, by using the loader's arms	2	3	-	1
	PC16. manoeuvre the joystick lever provided for backhoe operations	1	3	-	1
	PC17. operate the four levers to control the digging arm, dipper arm and stabilizer legs	1	2	-	1
	PC18. discharge the load safely at the designated place	1	2	-	1
	PC19. ensure that backhoe is never utilised for craning	1	2	-	1
	PC20. inform supervisor of problems while operating the Loader	2	2	-	1
	Total Marks	30	50	-	20
MIN/N1411: Perform basic maintenance and troubleshooting of the Loader	<i>Performing preventive maintenance</i>	15	27	-	9
	PC1. track machine operating hours to assess the required service	1	3	-	1
	PC2. park the Loader on a firm and level ground before attempting to carry out any maintenance activity	2	3	-	1
	PC3. inspect the tyre rims, air pressure, wheel nuts and treads for tyre-mounted Loader or track chain tension, track motor, roller for track-mounted Loader	2	3	-	1
	PC4. tighten the loose battery terminals with the help of an auto-electrician	1	3	-	1
	PC5. ensure that the Original Equipment Manufacturer (OEM) recommended procedure and checklist is followed for routine servicing	1	3	-	1
	PC6. replenish coolants, lubricants, and fluids	1	3	-	1
	PC7. carry out the maintenance with Heavy Earth Moving Machinery (HEMM) mechanic or superior in case of non-routine service or repair	2	3	-	1
	PC8. assist HEMM mechanic and electrician as and when required	3	3	-	1
	PC9. fill the daily, weekly and monthly maintenance/defect sheets as per the format laid down by the organization	2	3	-	1
	<i>Performing basic diagnosis and troubleshooting</i>	15	23	-	11
	PC10. ensure that no diagnosis on the machine is performed when it is running or is still hot	1	3	-	1
	PC11. identify fault in the Loader and trace the cause of this fault	2	3	-	1
	PC12. check the instrument panel and control gauge to identify out of range readings to find the defect/cause of failure	2	2	-	2
	PC13. conduct scheduled, routine examination and assessments against equipment specifications to identify wear, damage, corrosion, inadequate fluid levels, leaks and general condition and serviceability	2	2	-	1
	PC14. carry out diagnostic procedures as per the troubleshooting checklist prepared by the Original Equipment Manufacturer (OEM)	2	3	-	1
PC15. assess the problem when it is beyond one's competence and report the problem to concerned person	2	2	-	2	
PC16. follow standard operating procedure set out for diagnosing faults	1	3	-	1	

	PC17. review complaint sheet, logbook and history sheet of the equipment to identify the repair requirements	1	3	-	1
	PC18. follow "5-S" practice near the workshop area	2	2	-	1
	Total Marks	30	50	-	20
	<i>Reporting and documentation</i>	30	50	-	20
MIN/N1412: Carry out reporting and documentation related to the Loader Operation	PC1. report completion of job allocated during the shift, problems encountered and further actions that need to be taken	5	7	-	2
	PC2. report safety and hazard related problems on urgent and priority basis to the supervisor and the manager	3	7	-	3
	PC3. record the details of the machine operations accurately using the appropriate format	3	6	-	2
	PC4. identify documentation to be completed	3	6	-	3
	PC5. prepare all documentation correctly on time	5	6	-	2
	PC6. ensure that all documents are available to all appropriate authorities for inspection	3	6	-	3
	PC7. use Mineral Conservation and Development Rules (MCDR) based logbook and fill accurate data in correct format along with the signature at the end	3	6	-	2
	PC8. handover all important information to the reliever in a proper manner	5	6	-	3
	Total Marks	30	50	-	20
		<i>Follow work-site health and safety measures</i>	20	34	-
MIN/N1703: Follow Health, Safety, and Environmental Guidelines for opencast mines	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
DGT/VSQ/N0101: Employability Skills (30 Hours)	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
	PC3. explain 21st Century Skills such as Self- Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
	<i>Basic English Skills</i>	2	3	-	-
	PC4. speak with others using some basic English phrases or sentences	-	-	-	-
	<i>Communication Skills</i>	1	1	-	-
	PC5. follow good manners while communicating with others	-	-	-	-
	PC6. work with others in a team	-	-	-	-
	<i>Diversity & Inclusion</i>	1	1	-	-
	PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
	PC8. report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	3	4	-	-	
PC9. use various financial products and services safely and securely	-	-	-	-	

PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
Total Marks	20	30	-	-
Grand Total	170	280	-	100

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.