

QUALIFICATION FILE

Mineral Processing Operator

☒ 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: 4

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	Mineral Processing Operator																
2.	Sector/s	Mining																
3.	Type of Qualification: ☐ New ☒ Revised ☒ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: 2022/MIN/SCMS/06986 & Version 2.0	Qualification Name of existing/previous version: Mineral Processing Operator															
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-04-MG-04063-2025-V2-SCMS & Version 3.0	6. NCrf/NSQF Level: 4															
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	Mineral Processing Operator is engaged in mineral beneficiation in setting up crushing, screening, straining, washing, precipitating and other processes like leaching, floating and tailing management according to section in which posted and duties assigned and ensure proper working condition.																
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 equivalent)</td> <td>-</td> </tr> <tr> <td>2.</td> <td>11th grade pass</td> <td>1.5 year relevant experience in Mining Industry</td> </tr> <tr> <td>3.</td> <td>10th grade pass</td> <td>3 years relevant experience in Mining Industry</td> </tr> <tr> <td>4.</td> <td>Previous relevant Qualification of NSQF Level (3.0)</td> <td>3 years relevant experience</td> </tr> </tbody> </table> b. Age: 20 Years		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	12th grade Pass (or equivalent)	-	2.	11th grade pass	1.5 year relevant experience in Mining Industry	3.	10th grade pass	3 years relevant experience in Mining Industry	4.	Previous relevant Qualification of NSQF Level (3.0)	3 years relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																
1.	12th grade Pass (or equivalent)	-																
2.	11th grade pass	1.5 year relevant experience in Mining Industry																
3.	10th grade pass	3 years relevant experience in Mining Industry																
4.	Previous relevant Qualification of NSQF Level (3.0)	3 years relevant experience																
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrf))	14 (Compulsory Modules) ;Additional 2 Credits for each optional module	11. Common Cost Norm Category (I/II/III) (wherever applicable): I															
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	Not Applicable																

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)	130:00	290:00	-	-	420:00
		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-2015/8112.9900					
15.	Progression path after attaining the qualification (<i>Please show Professional and Academic progression</i>)	NSQF Level 5 - Supervisor - Plant Operations (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	☐ 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/N1703					
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: 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.	Pre-Operation checks of crusher and crusher sites	MIN/N4101 & V2.0	Core	4	4	30:00	90:00	-	-	120:00	30	50	-	20	100	20
2.	Operate conveyors and feeders	MIN/N4102 & V2.0	Core	4	4	30:00	90:00	-	-	120:00	30	50	-	20	100	30
3.	Operation and maintenance of the crusher	MIN/N4103 & V2.0	Core	4	3	20:00	70:00	-	-	90:00	30	50	-	20	100	20
4.	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	20
5.	Employability Skills (30 Hours)	DGT/VSQ/N 0101 & V1.0	Non-Core	2	1	30:00	00:00	00:00	-	30:00	20	30	-	-	50	10
Duration (in Hours) / Total Marks					14	130:00	290:00	-	-	420:00	140	230	-	80	450	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	Weightage (%) (if applicable)
1.																
2.																

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)
Duration (in Hours) / Total Marks																

Optional NOS/s:

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.	Grinding of crushed Ore/mineral	MIN/N4104 & V2.0	Core	4	2	20:00	40:00	-	-	60:00	30	50	-	20	100	20
2.	Beneficiation and Mineral recovery	MIN/N4105 & V2.0	Core	4	2	20:00	40:00	-	-	60:00	30	50	-	20	100	20
3.	Tailing Management	MIN/N4106 & V2.0	Core	4	2	20:00	40:00	-	-	60:00	30	50	-	20	100	20
Duration (in Hours) / Total Marks					6	60:00	120:00	-	-	180:00	90	150	-	60	300	60

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 Mineral Processing Operation. OR ITI (Mechanical/ Electrical/Chemical/ Engineering) with 6 years of relevant experience required in Mineral Processing Operation. OR
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		Diploma (Chemical/ Mineral Engineering) with 5 years of relevant experience required in Mineral Processing Operation. OR B. Tech (Chemical/Mineral Engineering) with 4 years of relevant experience required in Mineral Processing Operation. OR CITS-NCIC (Chemical Plant Technology) with 1 year of relevant experience in Mineral Processing Operation. AND Certified for Job role “Mineral Processing Operator” 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) (as per NCVET guidelines)	Class 10th pass with 6 years of relevant experience required in Mineral Processing Operation. OR ITI (Mechanical/ Electrical/Chemical/ Engineering) with 6 years of relevant experience required in Mineral Processing Operation. OR Diploma (Chemical/ Mineral Engineering) with 5 years of relevant experience required in Mineral Processing Operation. OR B. Tech (Chemical/Mineral Engineering) with 4 years of relevant experience required in Mineral Processing Operation. OR CITS-NCIC (Chemical Plant Technology) with 1 year of relevant experience in Mineral Processing Operation. AND Certified for Job role “Mineral Processing Operator” 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 (If “Yes”, details to be provided in Annexure)
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) (as per NCVET guidelines)	Class 10th pass with 8 years of relevant experience required in Mineral Processing Operation. OR ITI (Mechanical/ Electrical/Chemical/ Engineering) with 8 years of relevant experience required in Mineral Processing Operation. OR
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		Diploma (Chemical/ Mineral Engineering) with 7 years of relevant experience required in Mineral Processing Operation. OR B. Tech (Chemical/Mineral Engineering) with 6 years of relevant experience required in Mineral Processing Operation. OR CITS-NCIC (Chemical Plant Technology) with 1 year of Relevant experience in Mineral Processing Operation. AND Certified for Job role “Mineral Processing Operator” and Job Role “Assessor (VET and Skills)” with minimum accepted score of 80% in each
2.	Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Class 10th pass with 6 years of relevant experience required in Mineral Processing Operation. OR ITI (Mechanical/ Electrical/Chemical/ Engineering) with 6 years of relevant experience required in Mineral Processing Operation. OR Diploma (Chemical/ Mineral Engineering) with 5 years of relevant experience required in Mineral Processing Operation. OR B. Tech (Chemical/Mineral Engineering) with 4 years of relevant experience required in Mineral Processing Operation. OR CITS-NCIC (Chemical Plant Technology) with 1 year of relevant experience in Mineral Processing Operation. AND Certified for Job role “Mineral Processing Operator” 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) (as per NCVET guidelines)	Class 10th pass with 8 years of relevant experience required in Mineral Processing Operation. OR ITI (Mechanical/ Electrical/Chemical/ Engineering) with 8 years of relevant experience required in Mineral Processing Operation. OR Diploma (Chemical/ Mineral Engineering) with 7 years of relevant experience required in Mineral Processing Operation. OR B. Tech (Chemical/Mineral Engineering) with 6 years of relevant experience required in Mineral Processing Operation. OR CITS-NCIC (Chemical Plant Technology) with 1 year of Relevant experience in Mineral Processing Operation.

		AND Certified for Job role “Mineral Processing Operator” 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: 300
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 (<i>Mandatory - Public view</i>)	<i>Attached</i>
10.	Supporting Document: Occupational Map (<i>Mandatory</i>)	<i>Attached</i>
11.	Supporting Document: Assessment SOP (<i>Mandatory</i>)	<i>Attached</i>
12.	Any other document you wish to submit:	<i>No</i>

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	Mineral Processing Operators operate and monitor plant and machinery, which extract rock, and minerals from the earth, and performs crushing, screening, straining, washing, precipitating and other processes like leaching, floating and tailing management	A Mineral Processing Operators will perform PreOperation checks of crusher and scrusher sites operate conveyors and feeders and perform preventive maintenance of the crusher. They also adhere to the health, safety and environmental guidelines for open cast mines	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	Code of practice in specific areas of mine. Identify different types of ore processing processes and associated equipment. Specific safety instructions for conveying systems. Adhere to the hazards and safety aspects involved in ore processing activities, and usage of relevant PPEs	A Mineral Processing Operators ensures Code of practice in specific areas of mine. They will identify different types of ores processing processes and associated equipment. Identify and work with different types of crushers, understand various crushing principal components and screening techniques.	4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Skills to conduct operational checks on areas of potential issues like unusual noises/ smells, blockages and obstruction, lubrication of drive head, tail end and rollers, leaks, ensure magnets are operative. Check principal components of hoppers and bins, like grizzly rails, chutes, guardrails etc. Perform feeding of the ore to the crusher considering parameters like feed/ material rate, tilt, jams etc. Take corrective actions against any safety hazards like spillage etc. and issues like unusual noises/ smells, blockages and obstruction, lubrication, leaks, etc.	Provide full attention for production work in given time and make decisions pertaining to the concerned area of work. Detect problems in the crusher and conveyer system and rectify the same. Also able to make decision in emergency condition.	4

Broad Learning Outcomes/Core Skill	Take responsibility for completing one's own work assignment, methods to avoid accidents/errors while working with crusher and conveyer system. Note down the production data for the respective shifts in the logsheets/ online ERP as per applicability in the organization. Read the manuals, safety instructions and symbols for the better understanding of the working of the cage/skip.	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, handling crusher and conveyer system, 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.	4
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 in identifying issues with crushers and conveyer system and conduct preventive maintenance of the same. The individual must be able to follow instructions provided by supervisor.	Works independently as per the instruction of supervisor/ Shift Incharge/Mines Manag	4

Annexure: Tools and Equipment (Lab Set-Up)

(It can 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.	Screw	Standard	1
3.	Trough	Standard	1
4.	Scrapers	Standard	1
5.	Conveyor belt	Standard	1
6.	Clips	Standard	1
7.	Roller chains	Standard	1
8.	Guards	Standard	1
9.	Tensioners	Standard	1
10.	Feed and Discharge Chutes	Standard	1

11.	Tail and take-up pulleys	Standard	1
12.	Bearings	Standard	1
13.	Brakes	Standard	1
14.	Controls such as switches	Standard	1
15.	Trip cords	Standard	1
16.	Inter locks	Standard	1
17.	Alarms	Standard	1
18.	Electrical driving units including safety device	Standard	1
19.	Audio Visual Alarm	Standard	1
20.	Pumps	Standard	1
21.	Hand and power tools	Standard	1
22.	Scaffolds	Standard	1
23.	Ladder	Standard	1
24.	Various types of reagents acids, carbon, cyanide, calcium, etc.	Standard	1
25.	Helmet	Standard	15
26.	Gloves	Standard	15
27.	Harness	Standard	15
28.	Earplugs	Standard	15
29.	Safety Goggles	Standard	15
30.	Nose mask	Standard	15
31.	Safety shoes/ Gum boots	Standard	15

32.	Fire extinguisher	Standard	1
33.	Types of log book	Standard	1
34.	First Aid box	Standard	1
35.	MCDR	Standard	1
36.	MCR	Standard	1
37.	Company's SOP	Standard	1
38.	Diagrams showing quarries, overhangs, fencing	Standard	1
39.	Monthly Maintenance/Defect sheets	Standard	1
40.	Systematic Support Plan (SSP)	Standard	1
41.	Systematic Support Rules (SSR)	Standard	1
42.	Alcohol based sanitizers	Standard	1
43.	Self-rescue apparatus	Standard	1
44.	Gas Detector	Standard	1
45.	CMR	Standard	1
46.	MMR	Standard	1
47.	MRR	Standard	1
48.	Company's Safety Management Plan (SMP)	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)
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, 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 Sidheegram - 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	040 - 23551862/63	info@vprmininginfra.com	

				Telangana			
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	20	20	Not applicable	Not applicable
2026-27	100	100	40	40	Not applicable	Not applicable
2027-28	150	150	60	60	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	35	33	66	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable
2.0	2023-24	74	66	62	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable
2.0	2024-25	07	07	07	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.

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	☒ 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/N4101: Pre-Operation checks of crusher and crusher sites	<i>Pre-Operation check of crusher and crusher sites</i>	30	50	-	20
	PC1. check the electric panel and electric supply before starting the crusher	3	3	-	1
	PC2. check availability of raw materials at the site	3	3	-	1
	PC3. inspect the moveable parts in crushers like conveyor belts, rollers, stringers, etc. for wear and tear	2	4	-	1
	PC4. check Vertical Shaft Impactor (VSI) crusher, tips, liners, etc.	2	4	-	1
	PC5. coordinate with other vehicle operators for procurement of the raw material as per standards of the organisation	3	4	-	1
	PC6. inspect the suitable fire extinguishers and automatically operated fire suppression system and devices including automatic fire detection system at site	2	4	-	1
	PC7. interpret the layout and identify components of belt conveyor system including its principal components like, trough, conveyor belt, clips, roller, guards, tensioners, feed and discharge chutes, head, tail and take-up pulleys, bearings, controls such as switches, trip cords, Inter locks, alarms, etc.	2	4	-	2
	PC8. discuss the operations of mechanical and electrical driving units including safety devices	3	4	-	2
	PC9. conduct conveying of the ore to the processing unit considering parameters like feed/ material rate, alignment of conveyor belts, spillage amount and rate, conveyor jams etc.	2	4	-	2
	PC10. take corrective actions against any safety hazards	2	4	-	2
	PC11. conduct operational checks on areas of potential issues like unusual noises/ smells, blockages and obstruction, lubrication of drive head, tail end and rollers , leaks, ensure magnets are operative	2	4	-	2
	PC12. take corrective actions on any unusual issues observed during operational checks	2	4	-	2
	PC13. check principal components of hoppers and bins, like grizzly rails, chutes, guardrails etc.	2	4	-	2
	Total Marks	30	50	-	20
MIN/N4102: Operate conveyors and feeders	<i>Operate the feeders</i>	9	15	-	6
	PC1. interpret the layout and recognize the components of feeders including chains, pans, bearings, rollers, shafts, feed/discharge chute, drive mechanisms, lubrication systems, controls, drive belts, hangers/cables, etc.	3	5	-	2
	PC2. conduct feeding of the ore to the crusher considering parameters like feed/ material rate, tilt, jams etc.	3	5	-	2
	PC3. take corrective actions against any safety hazards like spillage etc. and issues like unusual noises/ smells, blockages and obstruction, lubrication, leaks, etc.	3	5	-	2

	<i>Operate the conveyors</i>	21	35	-	14
	PC4. follow the safe code of practice for erection, installation, operation, repairs, maintenance, dismantling of plant and ancillary equipment and for the prevention of accident and to provide safety, health, convenience and discipline of the workers	3	5	-	2
	PC5. check the suitable fire extinguishers and automatically operated fire suppression system and devices including fire detection system	3	5	-	2
	PC6. interpret the layout and recognize the components of a belt conveyor system including its principal components like trough, conveyor belt, clips, roller, guards, tensioners, feed and discharge chutes, head, tail and take-up pulleys, bearings, controls such as switches, trip cords, Interlocks, alarms, etc. and operations of mechanical and electrical driving units including safety devices	3	5	-	2
	PC7. conduct conveying of the ore to the processing unit considering parameters like feed/ material rate, alignment of conveyor belts, spillage amount and rate, conveyor jams etc.	3	5	-	2
	PC8. take corrective actions against any safety hazards	3	5	-	2
	PC9. conduct operational checks on areas of potential issues like unusual noises/ smells, blockages and obstruction, lubrication of drive head, tail end and rollers, leaks, ensure magnets are operative and take corrective actions if required	3	5	-	2
	PC10. ensure principal components of hoppers and bins, like grizzly rails, chutes, guardrails, etc. are deployed to control stockpile levels, stability of stockpiles, clearing of the obstruction etc.	3	5	-	2
	Total Marks	30	50	-	20
MIN/N4103: Operation and maintenance of the crusher	<i>Operation of the crusher</i>	21	32	-	11
	PC1. start and stop the crusher appropriately	2	2	-	1
	PC2. discuss various types of crusher and their crushing principle	2	3	-	-
	PC3. identify the important components of a jaw crusher, cone crusher and etc.	2	2	-	1
	PC4. discuss the various methods of comminution	2	3	-	-
	PC5. check different types of crushing principal components, such as gates, chutes and gaps, feeder, conveyor, dust collectors, water sprays etc.	1	3	-	1
	PC6. identify the components towards crushing of the material like drive mechanism, pulleys, crushers, etc.	2	2	-	1
	PC7. conduct crushing operations by controlling the feed/material by adjusting opening of gates, chutes and gaps, adjusting speed of feeder, adjusting speed of conveyor, controlling dust by using dust collectors, water sprays, remove and clean excess spillage, etc.	2	3	-	-
	PC8. use and identify signals from assistant to start or stop the equipment	2	2	-	1
	PC9. check the continuity of flow, safety, and efficient operation as per the instructions	1	2	-	1
	PC10. check for proper graded flow of materials into the crushers and control the speed and flow of material through conveyors	1	2	-	1

	PC11. test samples materials or products to ensure compliance with Indian standard(IS) specifications	1	2	-	1
	PC12. conduct operational checks on areas of potential issues like unusual noises/ smells, blockages and obstruction, leaks etc. and take corrective actions if required	1	2	-	1
	PC13. identify the areas of blockage and clear the crushing blockages periodically	1	2	-	1
	PC14. coordinate with the vehicle operators for collection of the output as per instructions from operator/ supervisor safety during operation	1	2	-	1
	<i>Operate the crushing screen</i>	2	4	-	2
	PC15. recognize the process requirements for separating feed/material and working around screens, including reporting, control of dust, load limitations, control of feed/material flow rate etc.	1	2	-	1
	PC16. conduct operational checks on areas of potential issues like unusual noises/ smells, blockages and obstruction, leaks etc.	1	2	-	1
	<i>Maintenance and trouble shooting of the crusher</i>	7	14	-	7
	PC17. replace crusher component/wear part as per requirement or schedule	1	2	-	1
	PC18. check indicators that signal need for replacement	1	2	-	1
	PC19. replenish coolants, lubricants, fluids and screeners as and when required	1	2	-	1
	PC20. follow the safe code of practice for erection, installation, operation, repairs, maintenance, dismantling of plant and ancillary equipment and for the prevention of accident and to provide safety , health, convenience and discipline of the persons so employed	1	2	-	1
	PC21. identify missing or defective components or controls and replace them with genuine OEM recommended components	1	2	-	1
	PC22. check oil, fuel tanks for leaks and take necessary actions as per the operational manual	1	2	-	1
	PC23. lubricate all the moving parts at regular intervals	1	2	-	1
	Total Marks	30	50	-	20
MIN/N1703: Follow Health, Safety, and Environmental Guidelines for opencast mines (Including Mine Vocational Training Rule)	<i>Follow work-site health and safety measures</i>	20	34	-	15
	PC1. comply with safety, health, and securityrelated 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	-	-
MIN/N4104: Grinding of crushed Ore/mineral	<i>Operate the grind mill</i>	30	50	-	20
	PC1. interpret the layout and recognize components of grinding mills including its principal components like drive motor, motor cooling fan, drive shaft and bearings, clutch, pinion gear, feed chute, shell, liners, lifters and bolts, ring/bull gear, trunnion and bearings, trommel screen, lubrication system, grinding media, controls, like main disconnect, Interlocks, stop/start switches (remote/local), selector switch remote/local), cooling system(s), sound boxes etc.	3	4	-	1
	PC2. conduct grinding/ classifier operations considering parameters like load limitations, charging grinding media as required, control of dust, control of feed/material flow rate, control and maintenance of densities, sampling and testing, proper grind, reagent addition etc.	3	5	-	2
	PC3. ensure that the control switches are operative and free of build-up and/or obstructions	3	4	-	1
	PC4. ensure the lubrication system(s) are at required levels	3	4	-	2
	PC5. ensure that the cooling system(s) are operative and at required levels	3	4	-	2
	PC6. ensure that the feed and discharge points are free of obstructions and blockages	2	5	-	2

	PC7. guard all identified hazards using rope/ bafflers and/or signs, clean up spills and leaks, etc.	2	5	-	2
	PC8. inspect classifier and components, such as feed gate, discharge point, trash screen, guards, cyclone, feed lines, launders, skirting, upstream and downstream equipment and related systems, rollers, Spirals	3	4	-	2
	PC9. ensure wearing of fall arrest system, control required quantity /quality of discharge by sampling and testing as required, adjusting water flow, adjusting feed rate, control dust by using: dust collectors, water sprays, ensure minimum spillage, etc.	3	5	-	2
	PC10. control density (percent solid, SG) by sampling	2	5	-	2
	PC11. conduct operational checks on areas of potential issues like unusual noises/ smells, blockages and obstruction; Take corrective actions	3	5	-	2
	Total Marks	30	50	-	20
MIN/N4105: Beneficiation and Mineral recovery	<i>Recognize the ore processing requirements and related parameters</i>	7	14	-	4
	PC1. recognize the ore processing methodology and process to be adopted through discussions with the supervisor and reading the process manuals/ work instructions/standard operating procedures	1	2	-	1
	PC2. discuss various reagents and their quantities to be used as well as effective reagents handling techniques	1	2	-	1
	PC3. monitor the reagent addition rate and mix tank levels continuously during the ore processing	1	2	-	1
	PC4. identify the various tools to be used at different steps of ore processing like hand & power tools, pneumatically & hydraulically powered tools, scaffolds, ladders etc.	1	2	-	1
	PC5. perform the operations of various equipment used at various stages like mobile equipment and lifting equipment	1	2	-	-
	PC6. identify the operations for various tools & equipment as well as the effective equipment handling guidelines	1	2	-	-
	PC7. prepare for the emergency situations with required instructions and equipment in place	1	2	-	-
	<i>Conduct leaching</i>	5	10	-	3
	PC8. conduct checks on various operational parameters like tank level, ph level, reagent usage, air parameters, alarms, pumps, screens, monitors etc.	1	2	-	1
	PC9. add reagents as required, such as acids, carbon, cyanide, calcium as per the process requirements	1	2	-	1
	PC10. conduct leaching/ ore beneficiation process to extract the minerals from the grinded ores	1	2	-	1
	PC11. check and monitor threshold limit values (tlvs)	1	2	-	-

PC12. guard all identified hazards using rope/barriers and/or signs, clean up spills and leaks, report condition to appropriate personnel	1	2	-	-
<i>Conduct separation</i>	5	6	-	4
PC13. check various separation systems like drive system, drums, concentrators, jigs, classifiers etc.	1	2	-	-
PC14. check various operating parameters like operating levels, pressures, cleanliness	1	1	-	1
PC15. ensure the maintenance of flow rate	1	1	-	1
PC16. check and monitor threshold limit values (tlvs)	1	1	-	1
PC17. guard all identified hazards using rope/barriers and/or signs, clean up spills and leaks, report condition to appropriate personnel	1	1	-	1
<i>Conduct floatation, dewatering and filtration</i>	13	20	-	9
PC18. identify the different types of floatation equipment including floatation air, bank of cells, conditioner, collector, floatation column, cells, such as: roughers, scavenger, cleaners, pumping system in-line assay system	1	2	-	-
PC19. start the floatation system and ensure adequate flow	1	2	-	1
PC20. control the quantity of reagents, percent solid, addition of air, level of froth/pulp, launder water, pump speed, ph level	1	2	-	1
PC21. stop floatation circuit in sequence	1	2	-	1
PC22. ensure that the reagent systems contain proper amount, type and strength of reagents	1	2	-	1
PC23. identify different types of dewatering systems including stock tanks, decanters, pumping systems, sampling systems, rakes, drive system, feed wells etc.	1	2	-	-
PC24. operate and maintain dewatering system while checking the shell, rakes (e.g. height, integrity), motor and gear box for unusual noises, pumps, water supply, pumps and valves etc.	1	2	-	-
PC25. guard all identified hazards using rope/barriers and/or signs, clean up spills and leaks, report condition to appropriate personnel	1	1	-	-
PC26. identify the different types of filtration systems and components including stock tanks, pumping systems, sampling systems, drive systems, lubrication systems, hydraulic systems, pneumatic systems, vacuum systems, filter cloth	1	1	-	1
PC27. check the functioning of vacuum system, gear box, bearings etc.	1	1	-	1
PC28. check the condition of the filter (e.g. thickness of filter cake)	1	1	-	1
PC29. conduct filtration while controlling the moisture, filtrate, wash water, pump speed, pressure, density etc.	1	1	-	1
PC30. monitor boot levels and agitation	1	1	-	1
Total Marks	30	50	-	20

MIN/N4106: Tailing Management	<i>Treat the water</i>	17	29	-	11
	PC1. obtain water from the mineral recovery unit and send the same to the treatment area	4	7	-	3
	PC2. treat water for chemicals and purify the same to make it fit for reclamation purposes	4	8	-	2
	PC3. send water to reclamation area (settling ponds)	5	7	-	3
	PC4. sample water and monitor levels of ponds	4	7	-	3
	<i>Manage the tailings</i>	13	21	-	9
	PC5. treat the tailings to reduce the toxin levels	4	7	-	3
	PC6. check the ph level	5	7	-	3
	PC7. dispose of tailings to the appropriate area	4	7	-	3
	Total Marks	30	50	-	20
Grand Total		230	380	-	140

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.