



QUALIFICATION FILE

Heavy Earth Moving Machinery (HEMM) Mechanic

- 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	Heavy Earth Moving Machinery (HEMM) Mechanic																
2.	Sector/s	Mining																
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input checked="" type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: 2022/MIN/SCMS/06980 & Version 2.0	Qualification Name of existing/previous version: HEMM Mechanic															
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-04056-2025-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	The HEMM Mechanic is responsible for diagnoses, repairs, overhauls and services of Heavy Earth Moving Machinery (HEMM) to keep them in good running order. Also carries out repairs and maintenance of internal combustion engines and the various components of a Heavy Earth Moving Machine like transmission, torque converter, power train, final drive, compressor, hydraulic systems and operational control systems etc. also maintains all the relevant records, draws requirements of consumables and spare parts.																
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: 60%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 30%;">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 years relevant experience in Mining Industry</td> </tr> <tr> <td>3.</td> <td>10th grade pass</td> <td>with 3 years relevant experience in Mining Industry</td> </tr> <tr> <td>4.</td> <td>Previous relevant Qualification of NSQF Level 3: Mine Mechanic/Fitter</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.	12th grade Pass (or equivalent)	-	2.	11th grade pass	1.5 years relevant experience in Mining Industry	3.	10th grade pass	with 3 years relevant experience in Mining Industry	4.	Previous relevant Qualification of NSQF Level 3: Mine Mechanic/Fitter	3 years relevant experience in Mining Industry
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1.	12th grade Pass (or equivalent)	-																
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3.	10th grade pass	with 3 years relevant experience in Mining Industry																
4.	Previous relevant Qualification of NSQF Level 3: Mine Mechanic/Fitter	3 years relevant experience in Mining Industry																
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrf))	14	11. Common Cost Norm Category (I/II/III) (wherever applicable): I															

12.	Any Licensing requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	Preferable Heavy Motor Vehicle Driving License																						
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>	<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>90:00</td> <td>270:00</td> <td>-</td> <td>-</td> <td>360:00</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <i>(Refer Blended Learning Annexure for details)</i>					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	90:00	270:00	-	-	360:00	Online	-	-	-	-	-
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	90:00	270:00	-	-	360:00																			
Online	-	-	-	-	-																			
14.	Aligned to NCO/ISCO Code/s <i>(if no code is available mention the same)</i>	NCO-2015/7233.1500																						
15.	Progression path after attaining the qualification <i>(Please show Professional and Academic progression)</i>	NSQF Level 5.0 (Vertical) - Mechanical Supervisor -Workshop (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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:																						
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 <i>(Specify the NOS/Module which covers it)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MIN/N1702, MIN/N1703, MIN/N1704																						
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.	Diagnose HEMM for repair requirement	MIN/N3206 & V2.0	Core	4	4	30:00	90:00	-	-	120:00	30	50	-	20	100	30		
2.	Carry out service, repair and maintenance activities	MIN/N3207 & V2.0	Core	4	7	30:00	180:00	-	-	210:00	30	50	-	20	100	40		
3.	Employability Skills (30 Hours)	DGT/VSQ/N0101 & V1.0	Non-Core	2	1	30:00	00:00	-	-	30:00	20	30	-	-	50	10		
Duration (in Hours) / Total Marks							12	90:00	270:00	-	-	360:00	80	130	-	40	250	80

Elective 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.	Follow Health, Safety and Environmental guidelines for Underground Metalliferous Mines	MIN/N1702 & V2.0	Core	3.5	2	20:00	40:00	-	-	60:00	30	50	-	20	100	20
2.	Follow Health, Safety, and Environmental Guidelines for opencast mines	MIN/N1703 & V2.0	Core	3.5	2	20:00	40:00	-	-	60:00	30	50	-	20	100	20

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)
3.	Follow Health, Safety, and Environmental guidelines for underground coal mines	MIN/N1704 & V2.0	Core	3.5	2	20:00	40:00	-	-	60:00	30	50	-	20	100	20
Duration (in Hours) / Total Marks					6	60:00	120:00	-	-	180:00	90	150	-	60	300	60

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	Weightage (%) (if applicable)
1.																
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 12 th pass with 6 years of relevant experience required as required as HEMM Mechanic. OR ITI (Motor Vehicle Mechanic/ fitter/ automobile/ any relevant) with 6 years of relevant experience required as HEMM Mechanic. OR Diploma (Mechanical/ Automobile/ any relevant trades) with 5 years of relevant experience required as HEMM Mechanic OR
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		B-Tech (Mechanical/ Automobile/ any relevant trades) with 4 years of relevant experience required HEMM Mechanic. OR CITS-NCIC (Mechanic Machine Tool, Maintenance) with 1 year Relevant experience in HEMM Mechanic. AND Certified for Job role “HEMM Mechanic” 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 12th pass with 6 years of relevant experience required as required as HEMM Mechanic. OR ITI (Motor Vehicle Mechanic/ fitter/ automobile/ any relevant) with 6 years of relevant experience required as HEMM Mechanic. OR Diploma (Mechanical/ Automobile/ any relevant trades) with 5 years of relevant experience required as HEMM Mechanic OR B-Tech (Mechanical/ Automobile/ any relevant trades) with 4 years of relevant experience required HEMM Mechanic. OR CITS-NCIC (Mechanic Machine Tool, Maintenance) with 1 year Relevant experience in HEMM Mechanic. AND Certified for Job role “HEMM Mechanic” and Job Role “Master Trainer (VET and Skills)” with minimum accepted score of 90% in each.
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	None

Section 4: Assessment Related

1.	Assessor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Class 12th pass with 8 years of relevant experience required as HEMM Mechanic. OR ITI (Motor Vehicle Mechanic/ fitter/ automobile/ any relevant) with 8 years of relevant experience required as HEMM Mechanic. OR Diploma (Mechanical/ Automobile/ any relevant trades) with 7 years of relevant experience required as HEMM Mechanic. OR B-Tech (Mechanical/ Automobile/ any relevant trades) with 6 years of relevant experience required as HEMM Mechanic. OR
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		CITS-NCIC Mechanic Machine Tool, Maintenance (MMTM) with 1 year Relevant experience as HEMM Mechanic. AND Certified for Job role “HEMM Mechanic” 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 12 th pass with 6 years of relevant experience required as required as HEMM Mechanic. OR ITI (Motor Vehicle Mechanic/ fitter/ automobile/ any relevant) with 6 years of relevant experience required as HEMM Mechanic. OR Diploma (Mechanical/ Automobile/ any relevant trades) with 5 years of relevant experience required as HEMM Mechanic OR B-Tech (Mechanical/ Automobile/ any relevant trades) with 4 years of relevant experience required HEMM Mechanic. OR CITS-NCIC (Mechanic Machine Tool, Maintenance) with 1 year Relevant experience in HEMM Mechanic. AND Certified for Job role “HEMM Mechanic” 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 12 th pass with 8 years of relevant experience required as HEMM Mechanic. OR ITI (Motor Vehicle Mechanic/ fitter/ automobile/ any relevant) with 8 years of relevant experience required as HEMM Mechanic. OR Diploma (Mechanical/ Automobile/ any relevant trades) with 7 years of relevant experience required as HEMM Mechanic. OR B-Tech (Mechanical/ Automobile/ any relevant trades) with 6 years of relevant experience required as HEMM Mechanic. OR CITS-NCIC Mechanic Machine Tool, Maintenance (MMTM) with 1 year Relevant experience as HEMM Mechanic. AND Certified for Job role “HEMM Mechanic” and Job Role “Lead Assessor (VET and Skills)” with minimum accepted score of 90% in each.
4.	Assessment Mode (Specify the assessment mode)	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 (details to be provided in Annexure-if it is different for Assessment)

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: 600
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

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

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	A HEMM Mechanic is responsible for diagnosing, repairing and servicing Heavy Earth Moving Machinery (H.E.M.M) to keep them in good running order. Also carries out repairs of internal combustion engines.	An HEMM Mechanic ensures end to end servicing of HEMM. Assist in diagnosing faults and troubleshooting problems in a Heavy Earth Moving Machine (HEMM). Perform HEMM maintenance operation for activities that need to be carried out during a shift.	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	Code of practice in specific areas of mine. Knowledge of the basic technology used in and functioning of various components and aggregates of the equipment. Carry out routine maintenance including checking vehicle condition against OEM specifications to identify damage, corrosion, wear and tear, fluid levels, leaks and other problems in serviceability. Adhere to the safety, health and environmental policies and regulations.	The HEMM Mechanic will adhere to the code of practice in specific areas of mine. Diagnose and repair various components and aggregates of the equipment HEMM. Perform routine maintenance including checking vehicle condition against OEM specifications to identify damage, corrosion, wear and tear, fluid levels, leaks and other problems in serviceability and dispose off replaced components in accordance with safety, health and environmental policies and regulations.	4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Skill to conduct scheduled, routine examination methods and assessments against Equipment specifications to identify wear, damage, corrosion, inadequate fluid levels, leaks, wear, security problems and general condition and serviceability. Report malfunctions or repair requirements observed in equipment's beyond what is mentioned in the complaint sheet. Follow standard operating procedures for using workshop tools and equipment	Provide full attention for production work in given time and make decisions pertaining to the concerned area of work. Detect problems in the HEMM and able to resolve them. 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 HEMM. Note down the production data for the respective shifts in the log sheets/ online ERP as per applicability in the organization. Read the manuals, safety instructions and symbols for the better understanding of the working of the HEMM equipment.	Records and note down the routine work and observation and comply task list related to safety aspect such as firefighting process, handling welding equipment, 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 diagnosing issues in the HEMM and repair the same. The individual must be able to follow instructions provided by supervisor.	Works independently as per the instruction of supervisor/Shift In-charge/Mines Manager	4

Annexure: Tools and Equipment (Lab Set-Up)

(It may change as per Industry needs)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	PPTs of different types of mines and Charts showing the same	Standard	1 of each type
2.	Engines of HEMM equipment (Shovel & Dump- truck, Excavator, Bulldozer, etc. as per the Industry requirement)	Standard	1 of each type
3.	Transmissions of HEMM equipment	Standard	1
4.	Tools & tackles for repairs	Standard	1
5.	Lathe machine	Standard	1
6.	Tyre equipment	Standard	1
7.	Undercarriages of tracked equipment	Standard	1
8.	5 tonne crane	Standard	1
9.	Allen Key set of 12 pieces	Standard	10
10.	Calliper inside 15 cm Spring	Standard	10
11.	Callipers outside 15 cm spring	Standard	10
12.	Centre Punch 10 mm. Dia. x 100 mm.	Standard	10
13.	Electrician Screw Driver 250 mm	Standard	10
14.	Hammer ball peen 0.5 kg with handle	Standard	10
15.	Pliers combination 20 cm.	Standard	10
16.	Screw driver 20cm.X 9mm. Blade	Standard	10
17.	Scriber 15 cm	Standard	10
18.	Spanner	Standard	10
19.	ring set of 12 metric sizes 6 to 32 mm	Standard	10
20.	Spanner D.E. set of 12 pieces (6mm to 32mm)	Standard	10
21.	Spanners socket with speed handle	Standard	10
22.	T-bar	Standard	10
23.	ratchet and universal up to 32	Standard	30
24.	Steel rule 30 cm inch and metric	Standard	10
25.	Steel tool box with lock and key (folding type) 400x200x150 mm	Standard	10

26.	Wire cutter and stripper	Standard	15
27.	Gloves	Standard	15
28.	Safety shoes	Standard	15
29.	Safety goggles	Standard	15
30.	Safety helmet	Standard	15
31.	Fire extinguisher	Standard	1
32.	Types of log book	Standard	1
33.	First Aid box	Standard	15
34.	Harness	Standard	15
35.	Earplugs	Standard	1
36.	Nose Mask	Standard	1
37.	MCDR	Standard	1
38.	MCR	Standard	1
39.	Company's SOP	Standard	1
40.	Diagrams showing quarries, overhangs, fencing	Standard	1
41.	Samples or charts showing different types of rocks to be encountered; Mines Act; "5-S" Charts;	Standard	1
42.	Daily, Weekly, Monthly Maintenance/Defect sheets; Systematic Support Plan (SSP); Systematic Support Rules (SSR); self-rescue apparatus; Line Diagram of Ventilation Circuit; Alcohol based sanitizers; self-rescue apparatus; Gas Detector	Standard	1
43.	Safety Lamp	Standard	1
44.	Self-Contained Breathing Apparatus	Standard	1
45.	Gum boots	Standard	5 pairs
46.	Company's Safety Management Plan (SMP) and Emergency Management Plan (EMP);	Standard	1
47.	Diagrams of Armoured face conveyor	Standard	1
48.	Charts of coal mines occupational diseases	Standard	1

49.	CMR	Standard	1
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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,	9830987657	nilidri.topodar@rpgs.com	

				Kolkata, West Bengal 700001			
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 Telangana	040 - 23551862/63	info@vprmininginfra.com	

17.	Rungta Mines Limited	G Vidhyanathan	Group Head Mining division	RUNGTA MINES LIMITED is 8A EXPRESS TOWER, 42A SHAKESPEARE SARANI , KOLKATA, West Bengal, India - 700017.	+91 (06553) 226846	INFO@THERUNGTAGROUP.COM	
18.	Elixir Engineering	H P Rajesh Rao	HR General Manager	6, 1st Floor, SFHS Shopping Area, Nandini Layout, Bangalore - 560 096.	91-8023196645	info@elixirengineering.com/elixireng@gmail.com	
19.	Shyam Metalic	Birendra Kumar	Assistant General Manager	Tower 7th Floor, Trinity, 83, E Topsia Rd, Kolkata, West Bengal 700046	1800 202 2233	contact@shyamgroup.com	
20.	Sainik Mining and Allied Services Ltd.	Lokendra Sethi	Plant Head	7th Floor, Corporate Tower, Ambience Mall NH-8, Gurgaon - 122001, Haryana	+91 124-2719000	info@sainikmining.com	
21.	Thriveni Sainik	Swathi Sinha	Corporate Communication & HR Head	Barwadih Coal Mining Project, Langatu, Barkagaon, Hazaribag - 825311, Jharkhand, India	91 6546-223115	info@thrivenisainik.com	

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates	Women	People with Disability
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	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025-26	100	100	25	25	Not Applicable	Not Applicable
2026-27	200	200	50	50	Not Applicable	Not Applicable
2027-28	300	300	150	150	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	50	52	02	Not available	Not available	Not available	Not available	Not available	Not Applicable	Not Applicable	Not Applicable	Not Applicable
2.0	2023-24	90	90	90	Not available	Not available	Not available	Not available	Not available	Not Applicable	Not Applicable	Not Applicable	Not Applicable
2.0	2024-25	379	270	279	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 & SANKALP
- 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 & 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
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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
	<i>Identify and diagnose operational faults</i>	30	50	-	20

MIN/N3206: Diagnose HEMM for repair requirement	PC1. conduct scheduled, routine examination methods and assessments against Equipment specifications to identify wear, damage, corrosion, inadequate fluid levels, leaks, wear, security problems and general condition and serviceability	3	4	-	1
	PC2. review complaint sheet, log book and history sheet of the equipment and identify repair requirements	3	5	-	2
	PC3. recognize original equipment manufacturers' specifications and follow standard operating procedure set out for preventive maintenance and diagnosing faults	3	5	-	2
	PC4. use diagnostic procedures as defined in the troubleshooting checklist prepared by the equipment manufacturer	2	4	-	2
	PC5. use diagnostic tools as required to assess the problem including using on board diagnostic tools like digital tools and devices, use of pressure gauges, filler gauges, callipers and condition monitoring devices and tools to obtain equipment data and compare the same with standards to detect faults in the system	3	5	-	2
	PC6. check and make adjustments to clearances, gaps, settings, alignment, pressures, tension, speeds and oil levels relevant to the engine area, transmission area, chassis area, final drive, electrical circuitry and body (including valves, ignition, fuel system and emissions, brakes, transmission, lights, final drive, hydraulic system, tyres/tracks, steering and body and chassis fittings)	2	5	-	2
	PC7. check routine service components and materials, including oil seals, filters, drive belts, wiper blades, brake linings and pads, linkages, bearings, lubricants and fluids	3	4	-	2
	PC8. recognise and record any damage to equipment's components and units outside normal service items	3	5	-	2
	PC9. check lubricant levels and identify codes and grades of lubricants to be used for specific components of HEMM	3	4	-	1
	PC10. dismantle specific components and assemblies, needing attention, to locate and identify faults	2	5	-	2
	PC11. report malfunctions or repair requirements observed in equipment's beyond what is mentioned in the complaint sheet	3	4	-	2
	NOS Total	30	50	-	20
	<i>Carry out service, repair and maintenance activities</i>	30	50	-	20
	PC1. follow Original equipment manufacturer (OEM) recommended				

MIN/N3207: Carry out service, repair and maintenance activities	procedure and checklist for routine servicing	3	4	-	2
	PC2. confirm tasks to be carried out with superior for non-routine service or repair	3	5	-	2
	PC3. obtain the correct spare parts, lubricants, tools and other materials required	3	5	-	2
	PC4. calibrate, align and adjust settings, alignment, pressures, tension, speeds and levels relevant to engine and aggregates, transmission system, load bearing arms and structure, safety devices and components installed, electrical and electronic components and other components (including valves, ignition, fuel systems and emissions, brakes, transmission, lights, tyres, tracks, hydraulic systems, steering and body/chassis fittings)	5	6	-	2
	PC5. identify and change components requiring change due to continuous wear and tear including fuel, oil and air filters, drive belts, braking system components, drive train components, oil seals, bearings and bushes etc.	2	5	-	2
	PC6. ensure disposal of materials in accordance with the organization's policies	2	4	-	2
	PC7. refill correct grade of coolants, lubricants and other fluids as per OEM guidelines	3	5	-	2
	PC8. follow the various precautions to be taken to avoid damage to the vehicle and its components	3	4	-	2
	PC9. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure	2	4	-	2
	PC10. follow standard operating procedures for using workshop tools and equipment	2	4	-	1
	PC11. ensure all workshop tools, equipment and workstations are adequately maintained by carrying out scheduled checks, calibration and timely repairs	2	4	-	1
	NOS Total	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	-	-	-	-
	NOS Total	20	30	-	-
MIN/N1702: Follow Health, Safety and Environmental guidelines for Underground Metalliferous Mines	<i>Follow work-site health and safety measures</i>	24	42	-	17
	PC1. undertake "The Take-5 (Personal Risk Assessment)" before commencement of any work	-	2	-	2
	PC2. comply with safety, health and security- related regulations/guidelines at the mine e.g. follow Standard Operating Procedure (SOP) for material handling in underground (U/G) mine	1	3	-	-
	PC3. operate various types of fire extinguishers to control different types of fire at a worksite when required	1	4	-	1
	PC4. check that roof supporting is as per Systematic Support Plan (SSP) and approved Systematic Support Rules (SSR) while undertaking work in an area	1	1	-	-
	PC5. take precaution against occupational health hazards (like dust, water, mine gases etc.) due to U/G working environment	1	2	-	1
	PC6. use self-rescue apparatus, appropriately when required	-	4	-	1
	PC7. follow appropriate emergency response procedure during emergency such as fire, water inrush, fall of ground etc.	1	2	-	1
	PC8. follow precautions against U/G electrical appliances	2	2	-	2
	PC9. follow appropriate Standard Operating Procedure while working near any isolated and sealed off area of the mine	2	2	-	1
	PC10. follow appropriate safety practices while traveling on U/G haul roads, incase of post blast fumes and misfire	2	4	-	-
	PC11. follow the manufacturer's instructions for care and safe operation of mine machinery and equipment	1	2	-	1
<i>Follow work-site health and safety measures</i>	24	42	-	17	

PC12. identify the working ventilation district from line diagram of ventilation circuit to direct air to the working face	1	1	-	-
PC13. follow Safety Management Plan (SMP) and Emergency Management Plan (EMP)	1	-	-	-
PC14. follow gas detecting alarm signal on leakage of inflammable gases and laid out procedure to ensure safety	1	2	-	1
PC15. follow process for reporting any unsafe act/condition in work area to the concerned person	-	2	-	1
PC16. use underground mine communication system	-	1	-	-
PC17. ensure positive isolation near the work place if applicable	1	1	-	1
PC18. use appropriate PPE as per the requirement	2	4	-	2
PC19. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	1	1	-	1
PC20. disinfect the machine/tools before and after work/task	1	1	-	-
PC21. maintain hygiene at the work site	1	1	-	1
PC22. report any symptoms of illness to the shift- incharge	1	-	-	-
PC23. identify six directional hazards at workplace and take decisions accordingly	2	-	-	-
<i>Follow environmental guidelines</i>	6	8	-	3
PC24. identify the environmental impact of mining related operations and follow steps to reduce those impact	1	2	-	-
PC25. follow the mineral conservation practices in U/G mining operations to achieve optimum ore or mineral recovery	-	1	-	-
PC26. ensure that the stowing practices produce minimum disturbance to the surface	1	1	-	-
PC27. ensure that the subgrade ore is carried out to surface and stacked separately at the earmarked place	1	-	-	1
PC28. ensure the productivity of the machine for material/fuel conservation	1	1	-	-
PC29. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in				

	compliance with worksite guidelines	1	1	-	1
	PC30. follow the "5-S" practice at work site like cleaning oil from ground (to avoid soil from getting damaged), etc.	1	2	-	1
	NOS Total	30	50	-	20
MIN/N1703: Follow Health, Safety, and Environmental Guidelines for opencast mines	<i>Follow work-site health and safety measures</i>	20	34	-	15
	PC1. comply with safety, health, and security- related regulations/guidelines at the opencast mine	2	2	-	1
	PC2. follow the safety instructions given by the workman's inspector	1	3	-	1
	PC3. follow adequate safety while working at haul roads, heights, overburden dumps, sump area, stockyard, near moving parts, etc.	3	3	-	1
	PC4. take safety precautions while working on sites (sub-station, workshop etc.), with equipment, and conducting welding and cutting operations	1	3	-	1
	PC5. follow appropriate Safe Operating Procedure (SOP) while dealing with explosives	2	3	-	2
	PC6. respond promptly and appropriately to an accident/ incident or an emergency situation, within limits of the role and responsibility	2	3	-	1
	PC7. provide first aid to an injured person	2	3	-	1
	PC8. operate various types of fire extinguishers to control different types of fire at a worksite when required	1	3	-	1
	PC9. use appropriate PPE as per the requirement	2	4	-	2
	PC10. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	1	2	-	1
	PC11. disinfect the machine/tools before and after work/task	1	2	-	1
	PC12. maintain hygiene at the work site	1	1	-	1
	PC13. report any symptoms of illness to the shift- incharge	1	2	-	1
	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	-	-
	NOS Total	30	50	-	20
MIN/N1704: Follow Health, Safety, and Environmental guidelines for underground coal mines	<i>Follow work-site health and safety measures</i>	24	43	-	14
	PC1. follow preventive measures against firedamp, whitedamp, blackdamp etc.	1	1	-	-
	PC2. use the flame safety lamp for detecting the methane gas as per Standard Operating Procedure (SOP)	-	1	-	-
	PC3. undertake "The Take-5 (Personal Risk Assessment)" before commencement of any work	1	1	-	1
	PC4. comply with safety, health and security-related regulations/guidelines at the mine e.g. SOP for material handling in underground (U/G) mine	1	1	-	1
	PC5. ensure that oil, grease, canvas or other inflammable material are stored in fire-proof receptacle	-	1	-	-
	PC6. ensure that every instrument, apparatus and equipment are DGMS approved before these are used	1	1	-	-
	PC7. ensure that Armoured face conveyor (AFC) and chocks must be kept in a straight line for every cycle of operations and tightened up to the setting pressure while keeping it in full contact with the roof, applicable for longwall mining	3	3	-	-
	PC8. provide first aid to an injured person	1	2	-	1
	PC9. follow safety precautions against spontaneous heating of the coal	1	1	-	-
	PC10. operate various types of fire extinguishers to control different types of fire at worksite, if required	-	2	-	-

PC11. ensure that no person is traveling/working/staying under unsupported roof	1	-	-	-
PC12. check that roof supporting is as per Systematic Support Plan (SSP) and approved Systematic Support Rules (SSR) while undertaking work in an area	-	2	-	1
PC13. take precaution against occupational health hazards (like dust, water, mine gases etc.) due to U/G working environment	-	1	-	1
PC14. use self-rescue apparatus appropriately when required	-	2	-	-
PC15. follow Safety Management Plan (SMP) and Emergency Management Plan (EMP)	1	2	-	1
PC16. follow precautions against U/G electrical appliances	2	2	-	1
PC13. take precaution against occupational health hazards (like dust, water, mine gases etc.) due to U/G working environment	-	1	-	1
PC14. use self-rescue apparatus appropriately when required	-	2	-	-
PC15. follow Safety Management Plan (SMP) and Emergency Management Plan (EMP)	1	2	-	1
PC16. follow precautions against U/G electrical appliances	2	2	-	1
PC17. take proper care against damage and accidents while loading, transporting, dismantling and erecting of roof supports	1	2	-	-
PC18. follow appropriate SOP while working near any isolated and sealed off area of the mine	1	1	-	1
PC19. ensure that the roof and the sidewalls of the mine face (or newly exposed area of the mines) have been scaled/dressed properly	1	1	-	-
PC20. take relevant safety precautions during depillaring operation in UCM	-	2	-	1
PC21. follow appropriate safety practices while traveling on U/G haul roads, incase of post blast fumes and misfire	1	1	-	-
PC22. follow the manufacturer's instructions for care and safe operation of mine machinery and equipment	-	1	-	1

PC23. identify the working ventilation district from line diagram of ventilation circuit to direct air to the working face	-	1	-	1
PC24. follow laid out SOP in case of alarm signal for leakage of inflammable gases	1	1	-	-
PC25. follow the process of reporting any unsafe act/condition in the working area to the concerned person	-	1	-	1
PC26. use underground mine communication system	-	1	-	-
PC27. ensure positive isolation near the work place if applicable	1	1	-	-
PC28. use appropriate Personal Protective Equipment (PPE) as per the requirement	2	2	-	1
PC29. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	-	1	-	-
PC30. disinfect the machine/tools before and after work/task	1	1	-	-
PC31. maintain hygiene at the work site	1	1	-	-
PC32. report any symptoms of illness to the shift- incharge	1	1	-	-
PC33. identify six directional hazards at workplace and take decisions accordingly	-	1	-	1
<i>Follow environmental guidelines</i>	6	7	-	6
PC34. identify the environmental impact of mining related operations and follow steps to reduce those impact	1	1	-	1
PC35. follow the mineral conservation practices in U/G mining operations to achieve optimum ore or mineral recovery	1	1	-	1
PC36. ensure that the stowing practices produce minimum disturbance to the surface	1	1	-	-
PC37. ensure that the subgrade coal is carried out to surface and stacked separately at the earmarked place	1	1	-	1
PC38. ensure the productivity of the machine for material/fuel conservation	1	1	-	1
PC39. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in				

	compliance with worksite guidelines	-	1	-	1
	PC40. follow the "5-S" practice at work site like cleaning oil from ground (to avoid soil from getting damaged), etc.	1	1	-	1
	NOS Total	30	50	-	20
	Grand Total	170	280	-	100

Annexure: Assessment Strategy

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.

NSQC Approved