

QUALIFICATION FILE

Mine Welder

☒ 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	Mine Welder																
2.	Sector/s	Mining																
3.	Type of Qualification: ☐ New ☒ Revised ☒ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: 2022/MIN/SCMS/06982 & Version 2.0	Qualification Name of existing/previous version: Mine Welder															
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-04062-2025-V2-SCMS & Version 3.0	6. NCrf/NSQF Level: 4.0															
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Not Applicable																
8.	Brief Description of the Qualification	A mine welder is responsible for joining various types of metallic frames, structures, jigs, plates, sheets etc. using heating and melting process created through electrical power and gaseous discharge, maintaining process parameters, conducting quality checks on output product and maintaining a safe and healthy working environment.																
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 years 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: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	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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2.	11th grade pass	1.5 years relevant experience in Mining Industry																
3.	10th grade pass	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))	16 (Compulsory Modules + One Elective Module) ; Additional 1 Credit 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 (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☒ Offline ☐ Online ☐ 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>110:00</td> <td>310:00</td> <td>-</td> <td>-</td> <td>420:00</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)			Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	110:00	310:00	-	-	420:00	Online	-	-	-	-	-
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																	
Classroom (offline)	110:00	310:00	-	-	420:00																	
Online	-	-	-	-	-																	
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7212.0200																				
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	NSQF Level 5 (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	☐ Yes ☒ No URLs of similar Qualifications: https://www.nqr.gov.in/qualifications/3608 The qualification in the above link does not cater to the mining sector.																				
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 (Specify the NOS/Module which covers it)	☒ Yes ☐ No MIN/N1702, MIN/N1703, MIN/N1704																				
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☒ No Colleges ☒ Yes ☐ No																				
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Mr. Navneet Kumar Email : coo@skillcms.in, scms@skillcms.in Website : https://www.skillcms.in/ Contact No.: +91-11-26814593																				
23.	Final Approval Date by NSQC: 6 May 2025	24. Validity Duration: 3 Years	25. Next Review Date: 6 May 2028																			

NSQC Approved

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Prepare the welding machine, auxiliaries and work pieces for the welding process	MIN/N3201 V2.0	Core	4	5	40:00	110:00	-	-	150:00	30	50	-	20	100	20
2.	Conduct the welding process and weld the work piece	MIN/N3202 V2.0	Core	4	4	20:00	100:00	-	-	120:00	30	50	-	20	100	30
3.	Post welding operations activities	MIN/N3203 V2.0	Core	4	4	20:00	100:00	-	-	120:00	30	50	-	20	100	20
4.	Employability Skills(30 hours)	DGT/VSQ/N 0101 V1.0	Non-Core	2	1	30:00	00:00	-	-	30:00	20	30	-	-	50	10
Duration (in Hours) / Total Marks					14	110:00	310:00	-	-	420:00	110	180	-	60	350	80

Elective NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Special preparation for Welding at U/G Mines	MIN/N3204, V2.0	Core	4	1	10:00	20:00	-	-	30:00	30	50	-	20	100	20
Duration (in Hours) / Total Marks					1	10:00	20:00	-	-	30:00	30	50	-	20	100	20

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 10th pass with 6 years of relevant experience required as Welder. OR ITI (Mechanical Engineering) with 6 years of relevant experience required as Welder.
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		OR Diploma (Mechanical Engineering) with 5 years of relevant experience required as Welder. OR B-Tech (Mechanical Engineering) with 4 years of relevant experience required as Welder. OR CITS-NCIC (Welder) with 1 year of relevant experience required as Welder. AND Certified for Job role “Mine Welder” and Job Role “Trainer (VET and Skills)” with minimum accepted score of 80% in each.
2.	Master Trainer’s Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 10th pass with 6 years of relevant experience required as Welder. OR ITI (Mechanical Engineering) with 6 years of relevant experience required as Welder. OR Diploma (Mechanical Engineering) with 5 years of relevant experience required as Welder. OR B-Tech (Mechanical Engineering) with 4 years of relevant experience required as Welder. OR CITS-NCIC (Welder) with 1 year of relevant experience required as Welder. AND Certified for Job role “Mine Welder” and Job Role “Master Trainer (VET and Skills)” with minimum accepted score of 90% in each
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If “Yes”, details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	None

Section 4: Assessment Related

1.	Assessor’s Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 10th pass with 8 years of relevant experience required as Welder. OR ITI (Mechanical Engineering) with 8 years of relevant experience required as Welder. OR Diploma (Mechanical Engineering) with 7 years of relevant experience required as Welder. OR B-Tech (Mechanical Engineering) with 6 years of relevant experience required as Welder. OR CITS-NCIC (Welder) with 1 year of relevant experience required as Welder AND
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		Certified for Job role “Mine Welder” 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) <i>(as per NCVET guidelines)</i>	Class 10th pass with 6 years of relevant experience required as Welder. OR ITI (Mechanical Engineering) with 6 years of relevant experience required as Welder. OR Diploma (Mechanical Engineering) with 5 years of relevant experience required as Welder. OR B-Tech (Mechanical Engineering) with 4 years of relevant experience required as Welder. OR CITS-NCIC (Welder) with 1 year of relevant experience required as Welder. AND Certified for Job role “Mine Welder” and Job Role “Trainer (VET and Skills)” with minimum accepted score of 80% in each.
3.	Lead Assessor’s/Proctor’s Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Class 10th pass with 8 years of relevant experience required as Welder. OR ITI (Mechanical Engineering) with 8 years of relevant experience required as Welder. OR Diploma (Mechanical Engineering) with 7 years of relevant experience required as Welder. OR B-Tech (Mechanical Engineering) with 6 years of relevant experience required as Welder. OR CITS-NCIC (Welder) with 1 year of relevant experience required as Welder AND Certified for Job role “Mine Welder” 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: 1000
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>	Attached
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Attached
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Attached
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Attached
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is “Blended Learning”)</i>	Not Applicable
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	Filled
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	Filled
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Attached
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	Attached
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	Attached
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	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 mine welder is responsible for joining various types of metallic frames, structures, jigs, plates, sheets etc. using heating and melting process created through electrical power and gaseous discharge, maintaining process parameters, conducting quality checks on output product and maintaining a safe & healthy working environment.	A mine welder uses heating and melting process for joining various types of metallic frames, structures, jigs, plates, sheets etc.	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	Code of practice in specific areas of mine. Importance of benching in quarries, dressing of overhangs, undercuts, fencing. The safety guidelines specified by Directorate General of Mines Safety (DGMS) specific to welding works. Provision of compensation and working hours, leaves, etc. as per Mines Act-1952. The impact of various physical parameters like temperature, pressure, electrode distance, electric current, voltage on the properties of final output product like durability, ductility, surface finish etc. Basic chemical properties of material used for electrodes, flux, welding gases etc., electrical laws and working of welding transformers, capacitors etc. Knowledge of basic welding defects and corrective measures.	Check the impact of various physical parameters like temperature, pressure, electrode distance, electric current, voltage on the properties of final output product like durability, ductility, surface finish etc. Use DC welding machines and check voltage of machines etc., before performing welding operations. Perform cutting, shearing, hammering, drilling which can repair pieces with minor defects. Adhere to the safety precautions to be taken during cleaning and maintenance activities	4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Skill to prepare the edge for the strongest possible weld uses techniques like machining, chipping, grinding, and oxy-acetylene cutting and carbon arc cutting. Setup the welding apparatus as per the selected welding process and the internal SOPs/ Work instructions and the setting standard for the machine. Adjust the current/ voltage, temperature application as per the welding requirement and the activity test conducted earlier so that the desired heat can be created for the welding process. Ensure that the equipment and the work place are regularly cleaned and that there is not accumulation of dust, moisture and waste material.	Provide full attention for production work in given time and make decisions pertaining to the concerned area of work. Detect problems in day by day tasks and able to resolve them. Also able to make decision in emergency condition.	4
Broad Learning Outcomes/Core Skill	Take responsibility for completing one's own work assignment, methods to avoid accidents/errors while working with welding equipment. Note down the production data for the respective shifts in the log sheets/ online ERP as per applicability in the organization. Read the manuals, safety	Records and note down the routine work and observation and comply task list related to safety aspect such as fire-fighting 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

	instructions and symbols for the better understanding of the working of the welding equipment.		
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 controlling the cage, lowering and raising of persons, tools and materials. 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.	Posters for describing different types of Mines and associated operations.	Standard	1
2.	Alcohol based sanitisers	Standard	1
3.	Earplugs	Standard	15
4.	Eye protector glass with cover	Standard	15
5.	Gas Detector	Standard	15
6.	Gloves	Standard	15
7.	Goggles	Standard	15
8.	Harness	Standard	15
9.	Nose mask	Standard	15
10.	Power supply	Standard	15
11.	Protective clothes	Standard	15
12.	Safety shoes	Standard	15
13.	Self-rescue apparatus	Standard	15
14.	Welding metal	Standard	1

15.	"5-S"Charts	Standard	1
16.	Burning elements	Standard	1
17.	Charts of coal mines occupational diseases	Standard	1
18.	CMR	Standard	1
19.	Company's Safety Management Plan (SMP) and Emergency Management Plan (EMP)	Standard	1
20.	Diagrams of Armoured face conveyor	Standard	1
21.	Diagrams showing quarries, overhangs	Standard	1
22.	Electrodes	Standard	1
23.	Fencing	Standard	1
24.	Filler material	Standard	1
25.	Fire extinguisher	Standard	1
26.	First Aid box	Standard	1
27.	Flux	Standard	1
28.	Gumboots	Standard	15
29.	Line Diagram of Ventilation Circuit	Standard	1
30.	MCDR	Standard	1
31.	MCR	Standard	1
32.	Mines Act	Standard	1
33.	Safety Helmet	Standard	15
34.	Safety Lamp	Standard	1
35.	Systematic Support Plan (SSP)	Standard	1
36.	Systematic Support Rules (SSR)	Standard	1

37.	Types of log book	Standard	1
38.	Chippers	Standard	1
39.	Grinders	Standard	1
40.	Welding	Standard	1
41.	Welding Gases	Standard	1
42.	Jigs	Standard	1
43.	Welding gun	Standard	1
44.	Welding transformer	Standard	1
45.	Welding Gas cylinders	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,	9829094130	alxachemical@gmail.com	

				NIWARU ROAD, JHOTWARA, JAIPUR, RAJASTHAN-302012			
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	02876 - 268200 / 02876 - 308200 / 286530 - 34	pralhad@mehtagroup.com	

				Distr. Junagadh (Gujarat)			
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.CO M	
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 /elix ireng@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	200	200	50	50	Not applicable	Not applicable
2026-27	300	300	75	75	Not applicable	Not applicable
2027-28	500	500	125	125	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	63	64	54	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable

2.0	2023-24	101	101	108	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable
2.0	2024-25	294	216	262	Not available	Not available	Not available	Not available	Not available	Not applicable	Not applicable	Not applicable	Not applicable

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

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

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

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/N3201: Prepare the welding machine, auxiliaries and work pieces for the welding process	Recognizing the welding requirements, welding equipment and parameters	12	19	-	7
	PC1. recognize the right welding methodology and process to be adopted for completing the work order	2	3	-	1
	PC2. refer all process manuals/ work instructions/Standard Operating Procedures (SOP) to understand the right welding methodology and process	2	3	-	1
	PC3. discuss with the supervisor for given task/work	2	3	-	1
	PC4. identify the various welding parameters like temperature, pressure, electrode type, electrode distance, process cycle time etc. before starting the welding process, as mentioned in the work Instructions/ SOP manual	2	3	-	1
	PC5. identify the material required and the equipment availability for executing the activity	2	4	-	2
	PC6. compare various type of electrode in terms of electrode material and thickness, filler material and flux which will be required for the selected welding process before the initiation of the welding process	2	3	-	1
	Arrange the material and equipment	5	9	-	3
	PC7. arrange the correct type of electrodes as per material wise, dimension wise, filler material wise etc. used for the welding process	2	3	-	1
	PC8. arrange the material and the equipment required for executing the activity	1	3	-	1
	PC9. procure all required material from the store before starting the welding process	2	3	-	1
	Clean the welding equipment and setup the Equipment	5	9	-	4
	PC10. clean the surface of the electrodes and remove dust and any other impurities from the welding gun	1	3	-	1
	PC11. clean the other welding machine auxiliaries(welding transformer, gas discharge unit, flux wire) before the initiation of the welding process, as mentioned in the work instructions/ Standard Operating Procedures(SOP)	2	3	-	2
	PC12. setup the welding apparatus as per the selected welding process and the internal SOPs/ Work instructions and the setting standard for the Machine	2	3	-	1
	Prepare the surface of the part (work pieces)	8	13	-	6
	PC13. clean the surface of the metal parts (work pieces) which need to be joint	2	3	-	1
	PC14. prepare the edge for the strongest possible weld using techniques like machining, chipping, grinding, oxy- acetylene cutting and carbon arc cutting	2	4	-	2
	PC15. ensure that the parameters for edge parameters are as per the desired specifications like speed, cost, adaptability etc.	2	3	-	2
	PC16. take the work permission/authorization from mines manager if required	2	3	-	1
Total Marks		30	50	-	20
MIN/N3202: Conduct the welding process and weld the work piece	Install the welding work pieces on the welding apparatus	4	8	-	4
	PC1. hold the parts (Jigs) which need to be welded together using a clamp and align them with the electrodes as per the job requirement	2	4	-	2

	PC2. install the work pieces on the welding apparatus keeping in mind the electrodes distance, contact area, pressure, temperature application etc as specified in the welding SOP/ Control plan documents/work Instructions and instructed by the supervisor	2	4	-	2
	<i>Check the operations of the welding machines and auxiliaries and conduct a test process</i>	8	13	-	5
	PC3. check for operation of core welding equipment like welding gun, welding transformer, gas cylinders and gas discharge as per setup documentation	2	3	-	1
	PC4. identify shift direction hazard	2	3	-	1
	PC5. conduct destructive and non- destructive test activity to ensure conformance to the SOPs/ work instructions	2	4	-	2
	PC6. inform supervisor to make modifications in the welding parameters as per the test activity outcomes and the prescribed standard for destructive/ non destructive Tests	2	3	-	1
	<i>Perform the actual welding process</i>	8	13	-	5
	PC7. adjust the current/ voltage, temperature application as per the welding requirement and the activity test conducted earlier so that the desired heat can be created for the welding process	2	3	-	1
	PC8. check for the positioning of the spot and the welding gun as per the work instructions and the work order	2	4	-	2
	PC9. / hold the filler metal/ Flux material wire and the Welding Gun at the recommended angle and distance mentioned in the setup document, keeping the work pieces stationary to ensure the required melting of base metal	2	3	-	1
	PC10. ensure the flow of filler material/ gas discharge as per the welding standard prescribed in the SOP/ Work Instructions	2	3	-	1
	<i>Monitor process parameters to ensure error free welding process</i>	4	7	-	3
	PC11. monitor the welding process (Pressure, Temperature, gas discharge flow, electrode force, electrode distance etc) by observing the readings on the panels/ measuring instruments to prevent any harm to the work pieces due to overheating, burning, over melting, change in applied pressure etc	2	4	-	2
	PC12. note down the observations in the prescribed Format	2	3	-	1
	<i>Measure both welded pieces and remove welding Inconsistency</i>	6	9	-	3
	PC13. measure the final welded piece and compare the dimensions as prescribed in the work order engineering drawing	2	3	-	1
	PC14. ensure that the assistant operators/ helpers remove extra material by using chippers, grinders etc., in case the parts are not as per the given measurements	2	3	-	1
	PC15. ensure hammering of the bulges to give the work pieces the desired shape, in case of any dents or bulges	2	3	-	1
	Total Marks	30	50	-	20
MIN/N3203: Post welding operations activities	<i>Inspection of finished goods to detect any deviations from the product design</i>	8	12	-	5
	PC1. inspect the output products by comparing the dimensions of the output pieces with the specifications of the finished product using various measuring devices like micrometers, vernier calipers, gauges, rulers, weighing scales and etc.	2	3	-	2
	PC2. compare texture, color, surface properties, hardness and strength with the given specifications described the in work order/ work Instructions	2	3	-	1
	PC3. separate the defective pieces into two categories e.i. repairable and beyond repair by putting tags/ markings on the welded jig/ workpiece surface	2	3	-	1

	PC4. ensure that the pieces which are not meet the specified standard and cannot be repaired are discarded	2	3	-	1
	<i>Maintain records for production and defective pieces</i>	4	9	-	3
	PC5. maintain data records for quality defects and pieces which are beyond repair	2	3	-	1
	PC6. prepare all documentation correctly on time	1	3	-	1
	PC7. report completion of job allocated during the shift, problems encountered and further actions that need to be taken	1	3	-	1
	<i>Unload and store the finished goods</i>	6	11	-	5
	PC8. ensure that the output pieces is correctly clamped and lifted using suitable equipment like hoist, lifts, crane, etc.	2	4	-	2
	PC9. ensure that there is no damage to the lifted work pieces	2	4	-	2
	PC10. carry the output product to the designated area using hangars, conveyor belts, cranes, forklifts etc.	2	3	-	1
	<i>Ensure cleanliness and 5S is maintained at the workplace</i>	6	9	-	3
	PC11. store all equipment in a proper order as indicated in the equipment manual and the designated area	2	3	-	1
	PC12. ensure that the equipment and the work place are regularly cleaned and that there is not accumulation of dust, moisture and wastematerial	2	3	-	1
	PC13. follow "5-S" practice at work place	2	3	-	1
	<i>Conduct regular preventive maintenance of equipment</i>	6	9	-	4
	PC14. check the working of all bearing, rollers, shafts etc. and oil all moving parts of the equipment on a periodic basis	2	3	-	2
	PC15. check the working of non-moving parts and periodically conduct preventive maintenance to prevent machine failure	2	3	-	1
	PC16. check the equipment calibration periodically and report any errors to the maintenance teams for rectification	2	3	-	1
	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/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

	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 shiftincharge	1	-	-	-
	PC23. identify six directional hazards at workplace and take decisions accordingly	2	-	-	-
	<i>Follow environmental guidelines</i>	6	8	-	3
	PC24. identify the environmental impact of mining related operations and follow steps to reduce those impact	1	2	-	-
	PC25. follow the mineral conservation practices in U/G mining operations to achieve optimum ore or mineral recovery	-	1	-	-
	PC26. ensure that the stowing practices produce minimum disturbance to the surface	1	1	-	-
	PC27. ensure that the subgrade ore is carried out to surface and stacked separately at the earmarked place	1	-	-	1
	PC28. ensure the productivity of the machine for material/fuel conservation	1	1	-	-
	PC29. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in compliance with worksite guidelines	1	1	-	1
	PC30. follow the "5-S" practice at work site like cleaning oil from ground (to avoid soil from getting damaged), etc.	1	2	-	1
	Total Marks	30	50	-	20
MIN/N1703: Follow Health, Safety, and Environmental Guidelines for opencast mines	<i>Follow work-site health and safety measures</i>	20	34	-	15
	PC1. comply with safety, health, and security-related regulations/guidelines at the opencast mine	2	2	-	1
	PC2. follow the safety instructions given by the workman's inspector	1	3	-	1
	PC3. follow adequate safety while working at haul roads, heights, overburden dumps, sump area, stockyard, near moving parts, etc.	3	3	-	1
	PC4. take safety precautions while working on sites (sub-station, workshop etc.), with equipment, and conducting welding and cutting operations	1	3	-	1
	PC5. follow appropriate Safe Operating Procedure (SOP) while dealing with explosives	2	3	-	2
	PC6. respond promptly and appropriately to an accident/ incident or an emergency situation, within limits of the role and responsibility	2	3	-	1
	PC7. provide first aid to an injured person	2	3	-	1
	PC8. operate various types of fire extinguishers to control different types of fire at a worksite when required	1	3	-	1
	PC9. use appropriate PPE as per the requirement	2	4	-	2

	PC10. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	1	2	-	1
	PC11. disinfect the machine/tools before and after work/task	1	2	-	1
	PC12. maintain hygiene at the work site	1	1	-	1
	PC13. report any symptoms of illness to the shift-incharge	1	2	-	1
	<i>Follow Environmental guidelines</i>	10	16	-	5
	PC14. identify the environmental impact of related opencast mining operations	2	2	-	1
	PC15. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in compliance with worksite guidelines	1	2	-	1
	PC16. ensure not to mix topsoil with waste in day to day tasks	2	2	-	1
	PC17. ensure that HEMM is washed at the designated location	2	2	-	1
	PC18. ensure the productivity of the machine for material/fuel conservation	1	3	-	-
	PC19. follow the mineral conservation practices specified by the organization in accordance with MCDR-2017 (Mineral Conservation and Development Rules)	1	3	-	1
	PC20. assist supervisor for reducing environmental impact caused due to related mining operations	1	2	-	-
	Total Marks	30	50	-	20
MIN/N1704: Follow Health, Safety, and Environmental guidelines for underground coal mines	<i>Follow work-site health and safety measures</i>	24	43	-	14
	PC1. follow preventive measures against firedamp, whitedamp, blackdamp etc.	1	1	-	-
	PC2. use the flame safety lamp for detecting the methane gas as per Standard Operating Procedure (SOP)	-	1	-	-
	PC3. undertake "The Take-5 (Personal Risk Assessment)" before commencement of any work	1	1	-	1
	PC4. comply with safety, health and security-related regulations/guidelines at the mine e.g. SOP for material handling in underground (U/G) mine	1	1	-	1
	PC5. ensure that oil, grease, canvas or other inflammable material are stored in fire-proof receptacle	-	1	-	-
	PC6. ensure that every instrument, apparatus and equipment are DGMS approved before these are used	1	1	-	-
	PC7. ensure that Armoured face conveyor (AFC) and chocks must be kept in a straight line for every cycle of operations and tightened up to the setting pressure while keeping it in full contact with the roof, applicable for longwall mining	3	3	-	-
	PC8. provide first aid to an injured person	1	2	-	1
	PC9. follow safety precautions against spontaneous heating of the coal	1	1	-	-
	PC10. operate various types of fire extinguishers to control different types of fire at worksite, if required	-	2	-	-
	PC11. ensure that no person is traveling/working/staying under unsupported roof	1	-	-	-
	PC12. check that roof supporting is as per Systematic Support Plan (SSP) and approved Systematic Support Rules (SSR) while undertaking work in an area	-	2	-	1
	PC13. take precaution against occupational health hazards (like dust, water, mine gases etc.) due to U/G working environment	-	1	-	1
	PC14. use self-rescue apparatus appropriately when Required	-	2	-	-
	PC15. follow Safety Management Plan (SMP) and Emergency Management Plan (EMP)	1	2	-	1
	PC16. follow precautions against U/G electrical Appliances	2	2	-	1

	PC17. take proper care against damage and accidents while loading, transporting, dismantling and erecting of roof supports	1	2	-	-
	PC18. follow appropriate SOP while working near any isolated and sealed off area of the mine	1	1	-	1
	PC19. ensure that the roof and the sidewalls of the mine face (or newly exposed area of the mines) have been scaled/dressed properly	1	1	-	-
	PC20. take relevant safety precautions during depillaring operation in UCM	-	2	-	1
	PC21. follow appropriate safety practices while traveling on U/G haul roads, incase of post blast fumes and misfire	1	1	-	-
	PC22. follow the manufacturer's instructions for care and safe operation of mine machinery and equipment	-	1	-	1
	PC23. identify the working ventilation district from line diagram of ventilation circuit to direct air to the working face	-	1	-	1
	PC24. follow laid out SOP in case of alarm signal for leakage of inflammable gases	1	1	-	-
	PC25. follow the process of reporting any unsafe act/condition in the working area to the concerned person	-	1	-	1
	PC26. use underground mine communication System	-	1	-	-
	PC27. ensure positive isolation near the work place if applicable	1	1	-	-
	PC28. use appropriate Personal Protective Equipment (PPE) as per the requirement	2	2	-	1
	PC29. maintain hand hygiene by washing hands with alcohol based sanitisers/soap	-	1	-	-
	PC30. disinfect the machine/tools before and after work/task	1	1	-	-
	PC31. maintain hygiene at the work site	1	1	-	-
	PC32. report any symptoms of illness to the shift-incharge	1	1	-	-
	PC33. identify six directional hazards at workplace and take decisions accordingly	-	1	-	1
	<i>Follow environmental guidelines</i>	6	7	-	6
	PC34. identify the environmental impact of mining related operations and follow steps to reduce those impact	1	1	-	1
	PC35. follow the mineral conservation practices in U/G mining operations to achieve optimum ore or mineral recovery	1	1	-	1
	PC36. ensure that the stowing practices produce minimum disturbance to the surface	1	1	-	-
	PC37. ensure that the subgrade coal is carried out to surface and stacked separately at the earmarked place	1	1	-	1
	PC38. ensure the productivity of the machine for material/fuel conservation	1	1	-	1
	PC39. follow the process for collecting, storing and disposing of the hazardous material and waste (like used oil, lubricant, battery, etc.) in compliance with worksite guidelines	-	1	-	1
	PC40. follow the "5-S" practice at work site like cleaning oil from ground (to avoid soil from getting damaged), etc.	1	1	-	1
	Total Marks	30	50	-	20
MIN/N3204: Special preparation for Welding at U/G Mines	<i>Special preparation for first & second degree gassy Mines</i>	24	38	-	16
	PC1. permission taken in writing from manager before going welding works at U/G mines	4	6	-	2
	PC2. carried out the welding work as per the SOP	4	6	-	2

	PC3. pre-inspection of site relating to safety aspects/arrangement i.e. presence of methane, availability of firefighting equipment, site/plan preferences where welding is to be carried out.	4	7	-	3
	PC4. precaution taken during welding and cutting operation at U/G mines	4	7	-	3
	PC5. carry out post inspection of site relating to Safety	4	6	-	3
	PC6. ensure that the pieces which are not as per requirement and not meeting the specified standard and cannot be repaired are discarded	4	6	-	3
	<i>Special preparation for third degree gassy mines</i>	6	12	-	4
	PC7. ensure prior permission from regional inspector of mines before conducting any welding works in U/G mines	3	6	-	2
	PC8. perform welding and cutting with close supervision of authorized supervisor	3	6	-	2
	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.