

QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY

Name and address of submitting body:

**Skill Council for Mining Sector (SCMS)
FIMI House, B-311, Okhla Industrial, Phase-1
New Delhi-110020**

Name and contact details of individual dealing with the submission

Name: A. K. Bhandari

Position in the organisation: Chief Executive Officer

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Same as above

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List of documents submitted in support of the Qualifications File

1. Sector Profiling
2. Occupational Map & Progression matrix
3. Protocol for Affiliation of Assessment Bodies and Assessment Framework
4. List of Companies which participated in the NOS development process including validation
5. Validation of Occupational Standards by Industry
6. Putting up the Occupational Standards in public view and declaration of Standard as NOS
7. Recommendation from QRC

1. QUALIFICATION FILE SUMMARY

Qualification Type			
Qualification Title	Haulage Operator		
Classification code	MIN/Q 0413		
Body/bodies which will assess candidates	SCMS affiliated Assessment Agency		
Body/bodies which will award the certificate for the qualification.	SCMS		
Body which will accredit providers to offer the qualification.	SCMS		
Occupation(s) to which the qualification gives access	Has been developed following all guidelines laid down by NSDC for NOS and Qualification Pack development. Has been validated by 3 Employers.		
Occupation(s) to which the qualification gives access	Underground		
Proposed level of the qualification in the NSQF.	Level 4		
Anticipated volume of training/learning required to complete the qualification.	120 hours		
Entry requirements / recommendations.	Preferable Class X		
Minimum Job Entry Age	+ 18 Years		
Progression from the qualification.	Foreman - Level 6		
Planned arrangements for RPL.	RPL arrangements and policies are in process		
International recognitions.	In progress		
Formal structure of the qualification			
Title of unit or other component (include any identification code used)	Mandatory/ Optional	Estimated size (learning hours)	Level
MIN/N 0439 (Prepare Haulage)	Mandatory	120 hours	4
MIN/ N 0440 (Perform Haulage Operations)			
MIN / N 0901 (Health and Safety)			

Please attach any document giving further detail about the structure of the qualification – eg a Curriculum or Qualification Pack.

Give details of the document here: [Haulage Operator](#)

SECTION 1

ASSESSMENT

Name of assessment body:

If there will be more than one assessment body for this qualification, give details.

1. **Anant Learning and Development, New Delhi**
2. **Navriti Technologies Private limited, Bangalore**
3. **Aspiring minds, New Delhi**
4. **Trendsetters Skill Assessors Pvt. Ltd.**

Will the assessment body be responsible for RPL assessment?

Give details of how RPL assessment for the qualification will be carried out and quality assured.

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:

Please attach any documents giving further information about assessment and/or RPL.

Give details of the document(s) here: [Protocol Document](#) and [RPL Assessment Document](#)

ASSESSMENT POLICY

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:

The emphasis is on practical demonstration of skills and knowledge based on the performance criteria. The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Pack. The assessments papers are also checked for the various outcome based parameters such as quality, time taken, precision, tools & equipment requirement etc.

The assessment results are backed by evidences collected by assessors.

1. The assessor needs to collect a copy of the attendance for the training done under the scheme. The attendance sheets are signed and stamped by the In-charge / Head of the Training Centre.
2. The assessor needs to verify the authenticity of the candidate by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/Government. The same needs to be mentioned in the attendance sheet. In case of suspicion, the assessor should authenticate and cross verify trainee's credentials in the enrolment form.
3. The assessor needs to punch the trainee's roll number on all the test pieces.
4. The assessor can take a photograph of all the students along with the assessor standing in the middle and with the centre name/banner at the back as evidence.
5. The assessor also needs to carry a photo ID card.

The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.

Detail any particular arrangements relating to candidates with disabilities or other special needs:

Based on the requirement, the candidates with disabilities or other special needs can be exempted from written/viva test and the same will be facilitated by assessor through best possible alternative means.

ASSESSMENT EVIDENCE

Complete the following grid for each grouping of NOS, assessment unit or other component as listed in the entry on the structure of the qualification on page 1.

Title of NOS/Unit/Component:

CRITERIA FOR ASSESSMENT OF TRAINEES

Haulage Operator

MIN/Q 0413

Skill Council for Mining Sector

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criteria
5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Assessable Outcome	Assessment criteria	Total Mark (100)	Out Of	Marks Allocation	
				Theory	Skills Practical
1. MIN/N 0439(Prepare Haulage)	PC1. Examine the engine, its brake and all appliances in his charge at the beginning of his shift, and ensure that they are in good working order.	35	4	2	2

	PC2. Perform a visual inspection of the equipment and report immediately to the engineer or other competent person appointed for the purpose any defect which he has noticed in the engine, drum, rope or other appliances under his charge.		3	2	1
	PC3. Guard and secure the haulage engine/equipment to prevent any unauthorized person to enter the engine-room or in any way to interfere with the engine or signal.		3	2	1
	PC4. Get acquainted with, and carefully attend to, the prescribed code of signals. The haulage operator shall not start the engine until he has received the proper signal to do so. If the signal is indistinct, he shall not start the engine until it has been repeated and he clearly understands it.		3	2	1
	PC5. As the in-charge of tubs or set of tubs, which is intended to be sent up any haulage plane or incline on which drags or back-stays are required to be used, ensure that the drag or back-stay is secured before such tub or set of tubs is set in motion.		4	2	2
	PC6. Ensure that no unauthorized person rides on any tub.		4	2	2
	PC7. Ensure that the safety catches of all such tubs are properly secured before a train of side-tipping tubs is set in motion.		4	2	2
	PC8. Knowledge of dumping, active dump/ stable dump etc.		4	2	2
	PC9. Maintain a checking/ maintenance logbook to record all activities performed before		3	2	1

	starting the Haulage.				
	PC10. Inform supervisor of problems that are beyond scope of his role.		3	2	1
		Total	35	20	15
2. MIN/N 0440(Perform Haulage Operations)	PC1. Keep the haulage engine and apparatus connected therewith properly cleaned and oiled, and the engine-room clean and free of inflammable material.	35	2	1	1
	PC2. Adjust the torque and speed to account for various loads by manipulating the gearbox/ transmission system as required.		3	1.5	1.5
	PC3. Cut off power and secure engine with brake if required (e.g. end of shift, etc.).		3	1.5	1.5
	PC4. Ensure that the stop- block are blocking way, before allowing any tub to be brought on to tope landing; and shall cause tubs to be securely coupled up to each other and to rope or chain, before the stop block is opened. In case any alternative safety appliance is provided, ensure its use on every such occasion.		3	1.5	1.5
	PC5. Ensure that that no person remains in a position of danger at or near such stopping place while the rope is in motion.		3	1.5	1.5
	PC6. Keep the headlights of the haulage machine continuously at 'ON' position during the operation of the machine.		3	1.5	1.5
	PC7. Isolate the haulage engine when no haulage is being performed.		3	1.5	1.5
	PC8. Secure Haulage through braking mechanism if it is left standing on gradient.		3	2	1

	PC9. Sound alarm before starting the Haulage machine through pre- start audible warning, alert all persons in the vicinity and give sufficient time to move away to a safe place. When Haulage is in operation no one shall be allowed to be present in front and behind the machine frame where he is not likely to be visible to the operator.		3	2	1
	PC10. Facilitate safe and proper maintenance of Haulage by bringing it to rest and cutting of power before undertaking any repair, servicing or adjustment. Before carrying out any maintenance work, it shall be secured with suitable support.		3	2	1
	PC11. Ensure that haulage is not used for transporting long materials like ropes, bars, for pushing or pulling bulky materials like tubs, pumps etc.		3	2	1
	PC12. Minor Maintenance Record: <ul style="list-style-type: none"> • Number of hours the haulage is in operation. • Number of hours the haulage is in breakdown/maintenance. • Record of the basic physical and mechanical condition of the haulage at the start of the shift. 		3	2	1
		Total	35	20	15
3. MIN/ N0901 (Health and Safety)	PC1. Comply with occupational health and safety regulations adopted by the employer.	30	3	2	1
	PC2. Follow mining operations procedures with respect to materials handling and accidents.		3	2	1

	PC3. Follow the correct safety steps in case of accident or major failure.		3	2	1
	PC4. Comply with safety regulations and procedures in case of fire hazard.		3	2	1
	PC5. Operate various grades of fire extinguishers.		3	2	1
	PC6. Work responsibly and as safe and careful as possible so as not to put the health and safety of self or others at risk, including members of the public.		2	1.5	0.5
	PC7. Perform storage and transport of hazardous materials compliant with safety guidelines prescribed by DGMS.		2	1.5	0.5
	PC8. Deal with misfires as per statutory requirement.		2	1	1
	PC9. Identify characteristics of post-blast fumes and take necessary precautions.		3	2	1
	PC10. Wears safety gear such as hard hat, respiratory protection, eye protection, ear protection.		3	2	1
	PC11. Follow the manufacturer's instructions for care and safe operation of the equipment.		3	2	1
		Total	30	20	10

SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

Feedback from industry was collected with respect to roles for which qualification packs development was to be prioritized.

What is the estimated uptake of this qualification and what is the basis of this estimate?

- Skills Gap analysis Reports for industry demand
- Training duration and current and potential capacity envisaged for potential supply

What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or

planned qualifications in the NSQF?

- NSDC list of Approved and Under-Development QPs was checked prior to commissioning the work
- NSDC QRC team also confirmed the same

What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated?

- In depth understand of minimum requisites to perform in a Job role
- Companies included in the research represents pan India.
- Language of the QP is gender neutral, and no religion or such terminology is referred to in the entire documentation and development process.

Has the qualification been through a formal approval procedure(s)?

(If so, explain the process and the outcome.)

Yes, NSDC QRC process was adhered to. This included minimum 3 validations for the QP from employers in the sector.

What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated?

- Feedback from the Industry and Industry Association
- Recommendation and suggestions from the Industry Player and Industry Association

What arrangements are in place to inform people about the qualification(s) and the advantages it offers?

- Employer workshops for buy-in and recognition
- Training centres are being enrolled and informed of the potential
- Counselling sessions by training provider for potential recruits are being encouraged

Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

SECTION 3

SUMMARY EVIDENCE OF LEVEL

Haulage Operators - MIN/Q 0413					
Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level
<p>This job requires the individual to concentrate on the job at hand and complete it efficiently and effectively without any accidents so diligence and hard-working are desired attributes for individuals performing this role. He must also demonstrate strong work ethics.</p>	<p>Different types of hauling systems (e.g. direct haulage, endless haulage, main and tail haulage, main-riding haulage). Code of signals (including visual and audio) and their mechanisms as required by the statute and as prescribed by the manager of the mine. Operating knowledge and understanding of different electrical/mechanical components, gears, gearboxes, transmission systems, lubrication systems and its specifications, braking mechanisms, hydraulic circuits, safety mechanisms (like fencing, guards, automatic locking of haulage drum) and couplings used in haulage systems</p>	<p>Examine the engine, its brake and all appliances in his charge at the beginning of his shift, and ensure that they are in good working order. Perform a visual inspection of the equipment and report immediately to the engineer or other competent person appointed for the purpose any defect which he has noticed in the engine, drum, rope or other appliances under his charge. Knowledge of dumping, active dump/ stable dump etc.</p>	<p>Skills of study document information from drawings and sketches. Note measurements and readings during the operations/processes. Layout, working and purpose of all control levers, switches, etc.</p>	<p>The role removes the cut/blasted material from the working face or any other raw material required in the operation of the mine, with the help of haulage equipment like tigger, endless haulage, main and tail haulage and remotely controlled haulages in such a manner as to enhance the performance of the loading/cutting machines and maximize the productivity of the overall section. an ability to communicate courteously with co-workers.</p>	4
4	4	4	4	4	4

Summary of Direct Evidence (from learning outcomes):

Skills required to fulfilling roles and responsibilities along with activities matched with NSQF Level 4

Summary of other evidence (if used):

Accepted by QRC, vetted by Industry

QUALIFICATION FILE SECTION 5

EVIDENCE OF RECOGNITION AND PROGRESSION

In the course of the research and/or development was there any direct evidence that the qualification(s) will be recognised by particular bodies – eg for entry to work or further study?

- Endorsed and accepted by the Industry players
- Formal recognition from the Industry players

List any agreements which have been reached with regulatory bodies on recognition.

Benchmarked and moderated skill recognition based on DGMS guidelines and international best practices.

What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

Horizontal and vertical mobility options are available.

Please attach any documents giving further information about any of the topics above.
Give details of the document(s) here:

QUALIFICATION FILE SECTION 6

EVIDENCE OF INTERNATIONAL COMPARABILITY

List any comparisons which have been established.

Under process