

Application Documentation: Version 2 /16 May, 2015

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

Address if different from above

Same as above

Tel number(s): +91-11-26814593

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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	
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Qualification Title	Banksman		
Classification code	MIN/Q 0414		
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.	Class X		
Progression from the qualification.	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 0441 (Pre- Operation Check)	Mandatory	120 hours	4
MIN/ N 0442 (Operation and Running)			
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: [Banksman](#)

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](#) , [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
Banksman
MIN/ Q 0414
Skill Council for Mining Sector
<u>Guidelines for Assessment</u>
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 0441 (Pre-Operation Check)	PC1. Inspect and maintain full control of the top or bottom of shaft and the inset	35	2	1	1
	PC2. Conduct visual inspection of: Gates & Fencing Girders		3	2	1

	Operating Levers Boards and Displays Keeps, Cage Safety Features & associated safety mechanisms Stowing arrangements"				
	PC3. Conduct general cleanliness and upkeep of cage system		3	2	1
	PC4. Acquaint with and carefully attend to, the prescribed code of signals.		3	2	1
	PC5. Inspect the signalling installation for proper functioning and identify any malfunctioning. In case any malfunctioning is observed, immediately notify the manager or designated person		3	2	1
	PC6. Identify types of material/ tools/ equipment required to be carried in the cage and thoroughly inspect approval letter by the manager or designated persons		3	2	1
	PC7. Conduct test run of the system by at least one complete trip up and down the working portion of the shaft., after any stoppage of winding for repairs or for any other cause for a period exceeding two hours		3	2	1

	<p>PC8. Inspect the cage and functioning of its safety mechanism, ensure that the cage gates on both sides are in position and closed, before signaling for the cage to be lowered or raised.</p>		3	2	1
	<p>PC9. Inspect operation of catching mechanism and ensure that the mechanism is holding the tubs properly before giving a go-ahead for operation. If he notices any defect in the tub-catches, he shall immediately inform his superior official</p>		2	1	1
	<p>PC10. Check and ensure all fences and gates provided at the top of the shaft or at any inset are in position. If he notices any defect in the fencing and gate, he shall immediately inform his superior official.</p>		2	1	1
	<p>PC11. Keep the top of the shaft or the inset and the floor of every cage free from loose material.</p>		3	2	1
	<p>PC12. Ensure availability of means of fastening to enable lowering/ raising of long timber, pipes, rails or other material projecting over the top of a cage or other means of conveyance and ensure that the projecting ends are securely fastened to the</p>		3	2	1

	rope, chains or bow.				
	PC13. Operate and ensure that keeps are in proper working order.		2	1	1
		Total	35	22	13
2. MIN/ N 0442 (Operation and Running)	PC1. Carefully attend to, the prescribed code of signals and properly transmit the signals by the means/mechanism provided.	35	3	2	1
	PC2. Observe proper functioning of signalling installation, and notify in case of any defect		4	2	2
	PC3. Ensure that his position is attended to at all times and is not left unattended, and continues to man the position at the end of shift until relieved by a duly appointed substitute		4	2	2
	PC4. Estimate the load of people and material and not allow more than the authorized number of persons to enter the cage or other means of conveyance at any time.		4	2	2
	PC5. Not allow any person to ride on the top or edge of any cage or other means of conveyance except when engaged in examination, repair or any other work in the shaft.		4	2	2
	PC6. Operate mechanisms to open or close the cage or other		4	2	2

	means of conveyance at any entrance into a shaft or inset which is provided with gates or fences, and ensure that the gate or fence are not removed until the cage or other means of conveyance has stopped at the entrance, and proper signals have been transmitted.				
	PC7. Notify the winding engineman to stop the engine at any instance when he suspects that the cages are not working smoothly in the shaft or when he hears anything unusual happening in the shaft while the winding engine is working.		4	2	2
	PC8. Guard and prevent unauthorized access to the cage. In case he is informed of any danger in the shaft, he will allow only maintenance personnel for examination or repair; and during the time that such examination or repair is going on, he shall remain on duty and attend to signals as per the prescribed code		4	2	2
	PC9. Maintain the record of the following in the log book Number of persons going underground at the start of shift. Number of tubs lifted up		4	2	2

	<p>the surface.</p> <p>Number of hours the cage have been in operation and number of hours it is in maintenance.</p> <p>Any discrepancies in the signalling system, keeps, and cage catcher.</p>				
		Total	35	18	17
3. MIN / N 0901 (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

<p>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.</p>
<p>What is the estimated uptake of this qualification and what is the basis of this estimate?</p> <ul style="list-style-type: none"> • Skills Gap analysis Reports for industry demand • Training duration and current and potential capacity envisaged for potential supply
<p>What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?</p> <ul style="list-style-type: none"> • NSDC list of Approved and Under-Development QPs was checked prior to commissioning the work • NSDC QRC team also confirmed the same
<p>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?</p> <ul style="list-style-type: none"> • 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.
<p>Has the qualification been through a formal approval procedure(s)? (If so, explain the process and the outcome.)</p> <p>Yes, NSDC QRC process was adhered to. This included minimum 3 validations for the QP from employers in the sector. This was across small, medium and large companies.</p>
<p>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?</p> <ul style="list-style-type: none"> • Feedback from the Industry and Industry Association • Recommendation and suggestions from the Industry Player and Industry Association
<p>What arrangements are in place to inform people about the qualification(s) and the advantages it offers?</p> <ul style="list-style-type: none"> • 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

Banksman - MIN/Q0414					
Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level
This role requires process for lowering and raising of persons, tools and materials and to transmit signals at the top of a shaft or incline	Knowledge of basic mechanical and electrical systems in relation to the lowering and hoisting of men/material. Various types of Lifting Equipment including cages, fencing, keps, fastening mechanisms etc and estimate the load of people and material and not allow more than the authorized number of persons to enter the cage.	<p>Prescribed signalling system and principles. Inspect and maintain full control of the top or bottom of shaft and the inset.</p> <p>Conduct visual inspection of:</p> <ul style="list-style-type: none"> • Gates & Fencing • Girders • Operating Levers • Boards and Displays • Cage Safety Features & associated safety mechanisms • Stowing arrangements etc. 	A Banksman needs to excel in ability to plan and prioritize, quality consciousness, safety orientation, reading, writing and communication skills, possess physique to sustain strenuous conditions, ability to use fingers, hands and feet with ease to complete the assigned task (Dexterity), high precision and sensitivity to problem solving and sensitivity towards safety for workers and vehicles.	The Banksman play crucial role for transporting the persons, tools and materials and is responsible for processes to be adopted for completing the task safely with responsibility without help of others.	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