

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

E-mail address: scms@skillcms.in

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	Explosive Van Operator		
Classification code	MIN/Q 0429		
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 30 Employers.		
Occupation(s) to which the qualification gives access	Open Cast		
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 0481 (Prepare Vehicle and Equipment)	Mandatory	120 hours	4
MIN/N 0482 (Deliver Bulk Explosives to the blast location)			
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: [Explosive Van 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

Explosive Van Operator

MIN/ Q0429

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	Marks Allocation			
		Total Mark (100)	Out Of	Theory	Skills Practical
1. MIN/N 0481 (Prepare Vehicle and Equipment)	PC1. Complete the vehicle pre-start checks to organizational operational requirements and in compliance with vehicle	35	6	2	4

	manufacturer's specification.				
	PC2. Load the vehicle and ensure that the load is secured to meet delivery requirements and in conformity with organizational and operational requirements and relevant legislation.		5	3	2
	PC3. Ensure that vehicle is equipped with all necessary tools, equipment, safety signs and equipment, personal protective equipment, communication devices and documentation required for leaving the depot, journey to site, entry to blast area and off-loading in accordance with statutory requirements, customer requirements, and organizational operational rules and procedures.		6	3	3
	PC4. Check the documentation in relation to the vehicle, load and delivery according to organizational operational procedures.		6	3	3
	PC5. Confirm vehicle in compliance and ready for travel.		6	3	3

	PC6. Ensure that only authorized persons are allowed into the loading area in accordance with security procedures.		6	3	3
		Total	35	17	18
2. MIN/N 0482 (Deliver Bulk Explosives to the blast location)	PC1. Identify and meet the site procedures for reporting.	35	3	2	1
	PC2. Meet the specific site requirements for identification, registration and induction of contractors/visitors.		3	2	1
	PC3. Identify and locate the site personnel with responsibility for oneself and the blast.		3	2	1
	PC4. Make necessary appointments of bulk explosive truck operator/s according to organisational and regulatory requirements.		3	2	1
	PC5. Identify and confirm location of and route to blast as appropriate.		3	2	1
	PC6. Identify and understand the relevant site rules and procedures.		2	1	1
	PC7. Confirm loading requirements for the blast according to the blast specification.		3	2	1
	PC8. Deliver the quantities and qualities of material/s are		3	2	1

	confirmed as appropriate and sufficient for the blast specification.				
	PC9. Ensure that the vehicle is safely driven to blast location in compliance with organisational and site procedures.		3	2	1
	PC10. Identify the potential hazards to transportation.		3	2	1
	PC11. Confirm that the loading position, including edge protection are safe and appropriate.		3	2	1
	PC12. Ensure that vehicle is safely driven and positioned at agreed optimum loading point/s according to operational procedures, site rules and loading requirements.		3	2	1
		Total	35	23	12
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 fire, accident, and major failure.		3	2	1

	PC4. Work responsibly and carefully so as not to put the health and safety of self or others at risk.		3	2	1
	PC5. Perform storage and transport of hazardous materials compliant with safety guidelines prescribed by DGMS.		3	2	1
	PC6. Comply with safety regulations and procedures in case of fire hazard.		3	2	1
	PC7. Operate various grades of fire extinguishers.		3	2	1
	PC8. 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.		3	2	1
	PC9. Demonstrate careful practices in handling explosives and heavy machinery.		3	2	1
	PC10. . Identify characteristics of post-blast fumes and take necessary precautions.		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 30 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

Summary of Direct Evidence:

Justify the NSQF level allocated to the QP by building upon the five descriptors of NSQF. Explain the reasons for allocating the level to the QP.

Generic NOS is/are linked to the overall authority attached to the job role.

Explosive Van Operator - MIN/Q 0429					
Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level
The role drives bulk explosives vehicles to mining areas safely. They are responsible for performing basic maintenance on the vehicle and to ensure that the safety systems in the vehicle are functional.	<p>Besides knowledge of driving fundamentals, the role requires the individual to know and understand the basic of mining operations, traffic rules to be followed in the mining area and safety guidelines for mining operations prescribed by DGMS. Should also have knowledge of:</p> <ul style="list-style-type: none"> • Knowledge of types and range of explosive materials • Knowledge of dimensions and loading limits of vehicles • Knowledge of on-site driving techniques. 	<p>Types and use of personal protective equipment that may be required whilst loading, driving, loading, purging and dealing with emergency situations.</p> <ul style="list-style-type: none"> • Types and range of explosive materials. • Dimensions and loading limits of vehicles. • Methods and procedures to protect and secure the load. • Potential safety hazards while carrying blasting explosives and usage of PPEs. 	<p>Load the vehicle and ensure that the load is secured to meet delivery requirements and in conformity with organizational and operational requirements and relevant legislation. Identify and confirm location of and route to blast as appropriate and confirm loading requirements for the blast according to the blast specification. The individual should be skilled in performing various driving and manoeuvring operations with the Vehicle. He must be able to follow instructions provided by supervisor.</p>	<p>The job holders to concentrate on the task and complete it without any accidents so diligence is a desired attribute for individuals in this role. Working without supervision with responsibility to test the sample.</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):

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