

**QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY**

**Name and address of submitting body:**

**Construction Skill Development Council of India**

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**Name and contact details of individual dealing with the submission**

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**List of documents submitted in support of the Qualifications File**

1. Career Map of Roads & Runway Construction Occupation - Annexure 1
2. QP CON/Q1001- Annexure 2
3. RPL Assessment Guideline/Policy-Annexure 3
4. Detail Assessment Plan- Annexure 4
5. Workshop Interaction – Annexure 5

## QUALIFICATION FILE SUMMARY

<b>Qualification Title</b>	Assistant Pavement Layer - QP CON/Q1001		
<b>Body/bodies which will assess candidates</b>	<ul style="list-style-type: none"> <li>• MCG</li> <li>• Star Projects</li> <li>• Stamp</li> <li>• India Skills</li> </ul>		
<b>Body/bodies which will award the certificate for the qualification.</b>	CSDCI		
<b>Body which will accredit providers to offer the qualification.</b>	CSDCI		
<b>Occupation(s) to which the qualification gives access</b>	Roads & Runway Construction		
<b>Proposed level of the qualification in the NSQF.</b>	2		
<b>Anticipated volume of training/learning required to complete the qualification.</b>	300 hrs		
<b>Entry requirements / recommendations.</b>	Preferably 5th standard		
<b>Progression from the qualification.</b>	Pavement Layer L-4		
<b>Planned arrangements for RPL.</b>	Work is under progress		
<b>International Comparability</b>	Comparable with UK Standard and Australia Standard		
<b>INDIAN NOS</b>	<b>Comparable UK / Australia NOS</b>		
CON/N01001: Identify, handle, store, tools and construction materials for road construction works	Comparable UK NOS: MPQPO09: Receive, store and handle materials for processing		
CON/N01002: Prepare base course for road by surface cleaning and carrying out earthwork manually	Comparable UK NOS: COSVR374: Reinstate excavation and highway surfaces		
CON/N01003: Shift and place hot asphalt by suitable/ specified means and place the mix at appropriate work location	Comparable UK NOS: LANLBOCU16v1: Assist with maintaining structures and services COSVR59: Apply coatings as structure protection		
CON/N8001: Work effectively in a team to deliver desired results at the workplace	Comparable UK NOS COSVR642 :Conform to productive work practices		
CON/N9001: Work according to personal health, safety and environment protocol at construction site	Comparable UK NOS: COSVR641: Conform to general workplace health, safety and welfare		
<b>Formal structure of the qualification</b>			
<b>Title of unit or other component</b> (include any identification code used)	<b>Mandatory/ Optional</b>	<b>Estimated size (learning hours)</b>	<b>Level</b>
CON/N1001: Identify, handle, store, tools and construction materials for road construction works	Mandatory	56	2
CON/N1002: Prepare base course for road by surface cleaning and carrying out earthwork	Mandatory	112	2

manually			
CON/N1003: Shift and place hot asphalt by suitable/ specified means and place the mix at appropriate work location	Mandatory	110	2
CON/N8001 Work effectively in a team to deliver desired results at the workplace	Mandatory	24	2
CON/N9001: Work according to personal health, safety and environment protocol at construction site	Mandatory	48	2

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:

1. QP CON/Q1001- Annexure 2

## SECTION 1

### ASSESSMENT

**Name of assessment body:**

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

- MCG
- Star Projects
- Stamp
- India Skills

**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.

The RPL assessment will be carried out through screening, identifying the skills gaps, provide bridge training to cover the competency gap and then conduct final assessment of the candidates.

Detailed note is attached as Annexure-3

**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:**

Assessment is carried out through CSDCI affiliated Assessment Body only. The Assessors are trained & certified by CSDCI through Training of Assessors program. The TOA assessment programme involves two processes. The first process is gathering the evidence of the domain competency of individuals based on domain skills assessments. The second part of the assessment process is the judgement of his platform skills.

The assessment plan contains the following information:

- What will be assessed, i.e. the competency based on each NOS
- methods of assessments and its duration –skill & knowledge assessments context of the assessment (workplace/simulation)
- The criteria for decision making will guide judgements.
- To ensure assessment is always consistent and fair, a standard assessment criteria developed by CSDCI will be shared with affiliated AB's. The assessment tools developed by AB's within this assessment criteria framework duly vetted by CSDCI will be used for skill and knowledge assessments of trainees

Detailed Note is Attached as Annexure-4

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

Give details of the document(s) here:

1. RPL Assessment Guidelines/Policy- Annexure 3
2. Detailed Assessment Plan- Annexure 4

## **ASSESSMENT EVIDENCE**

**Complete the following grid for each grouping of NOS, assessment unit or other component as per the assessment criteria. Insert the required number of rows.**

### **CRITERIA FOR ASSESSMENT OF TRAINEES**

#### **Assistant Pavement Layer**

#### **CON/Q1001**

#### **Construction Skill Development Council Of India**

##### **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 knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC
3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.
5. The passing percentage for each QP will be 50%. To pass the Qualification Pack, every trainee should score a minimum of 50% individually in each NOS.
6. The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome.
7. The trainee shall be provided with a chance to repeat the test to correct his procedures in case of improper performance, with a deduction of marks for each iteration.
8. After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity .
9. 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 within the specified timeframe set by SSC.
10. Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

				Marks Allocation	
Assessable Outcome	Assessment criteria	Total Marks	Out Of	Theory	Practical Skills
<b>CON/N1001: Identify, handle, store, tools and construction materials for road construction works</b>	PC1. identify and select common construction materials used for construction of flexible / morrum pavement such as aggregates, sand, bitumen, morrum, stone crusher dust	<b>100</b>	6	0.6	5.4
	PC2. identify and select common tools and equipments used for activities involved in road laying operation such as surface grading/ cleaning, earthwork, bitumen spreading etc.		6	0.6	5.4
	PC3. identify scaffolding and barrication systems used for road construction works		6	0.6	5.4
	PC4. identify hazardous material used at the road construction site such as hot bitumen/ asphalt, diesel, chemicals etc.		7	0.7	6.3
	PC5. identify and select PPEs to be used for handling hot bitumen, working at dusty condition and as per general safety requirement		7	0.7	6.3
	PC6. identify components of service lines/ drainage works for roads, such as pipe lines, ducts and its accessories		7	0.7	6.3
	PC7. load/ unload the various construction materials such as bricks, blocks, aggregates etc. at appropriate location		7	0.7	6.3
	PC8. shift material, tools and tackles to specified location as per instruction		6	0.6	5.4
	PC9. shift sewer/ drainage pipe segments and their accessories to the specified location and stack them as per instruction/ standard practice		6	0.6	5.4
	PC10. use appropriate PPEs while handling materials and tools		6	0.6	5.4
	PC11. select and use proper tools for shifting of materials to required work locations		6	0.6	5.4
	PC12. maintain correct body posture and ergonomics during lifting and shifting heavy material manually		6	0.6	5.4
	PC13. shift heavy tools / equipment safely by assisting cranes etc. as per the requirements under supervision		6	0.6	5.4
	PC14. store and stack construction materials as per instruction at specified location at site		6	0.6	5.4
	PC15. store and stack hazardous material as per standard practice and instruction		6	0.6	5.4
	PC16. erect barrication and safety signage at workplace as per instruction		6	0.6	5.4
	<b>Total</b>	<b>100</b>	<b>10</b>	<b>90</b>	
<b>CON/N1002: Prepare base course for road by surface cleaning and carrying out earthwork manually</b>	PC1. grub soil as per area proposed and dispose uprooted plants, grasses in to specified location as per instruction	<b>100</b>	5	0.5	4.5
	PC2. remove unwanted materials, organic substances, manually removable objects from the worksite using appropriate hand tools as per the instructions		5	0.5	4.5
	PC3. clean earth surface using proper hand tools to make it ready for carrying out marking activity		5	0.5	4.5
	PC4. carry out marking for excavation using lime, wooden pegs, ropes or by other suitable materials as per the instructions		5	0.5	4.5
	PC5. shift and stack fencing/ barricading materials, safety signage, ladders, ropes earth cutting and shifting tools at specified locations as per instruction		5	0.5	4.5

	PC6. dig earth to a desired depth using appropriate tools as per instruction		5	0.5	4.5
	PC7. maintain desired slope of earth during digging activity		5	0.5	4.5
	PC8. dispose earth from the excavated pit by using suitable tools and equipments such as spade , wheel barrows, pans as per instruction		5	0.5	4.5
	PC9. check for loose material, soil lumps, pebbles on achieving the desired earth level		6	0.6	5.4
	PC10. carry out surface dressing work by disposing loose material, gravels, plant roots, sludge, muck or debris as per requirement to the appropriate locations		6	0.6	5.4
	PC11. shift earth, morrum, gravel or sands and spread them on the top surface of the roads as per construction requirement of the road/ pavement		6	0.6	5.4
	PC12. fill earth/ gravel, boulders, stone dust or other filler material as per applicability for constructing sub base and base course manually, maintaining specific depth of layers as per instruction		6	0.6	5.4
	PC13. fill/ spread morrum, stone dust if applicable as per instruction maintaining uniform thickness of layers		6	0.6	5.4
	PC14. sort gravels or oversized aggregates manually from soil as per instruction prior to backfilling		6	0.6	5.4
	PC15. sprinkle water on the base course surface as per direction		6	0.6	5.4
	PC16. carry out cutting of protruded soil lumps, rocks up to desired level using appropriate cutting tools		6	0.6	5.4
	PC17. add earth/ soil as per required quantity to the pits, holes while assisting the roller operator		6	0.6	5.4
	PC18. carry out compaction of the base layer by ramming or operating hand/ plate compactor as per instruction if applicable		6	0.6	5.4
		<b>Total</b>	<b>100</b>	<b>10</b>	<b>90</b>
<b>CON/N1003: Shift and place hot asphalt by suitable/ specified means and place the mix at appropriate work location</b>	PC1. operate wheel barrow to shift bitumen/ asphalt mix from location of asphalt mixing to the placing point	<b>100</b>	18	1.8	16.2
	PC2. hold wheel barrow firmly to ensure there is no spillage of bitumen/ asphalt during the process of transportation		18	1.8	16.2
	PC3. tilt wheel barrow and place the asphalt mix at appropriate location under close supervision		16	1.6	14.4
	PC4. avoid contact with the hot asphalt mix during the transportation work		16	1.6	14.4
	PC5. wear appropriate PPEs while transporting bitumen/ asphalt mix		16	1.6	14.4
	PC6. report clearly to senior if any unsafe condition observed		16	1.6	14.4
			<b>Total</b>	<b>100</b>	<b>10</b>
<b>CON/N8001: Work effectively in a team to deliver desired results at the workplace</b>	PC1. pass on work related information/ requirement clearly to the team members	<b>100</b>	10	2	8
	PC2. inform co-workers and superiors about any kind of deviations from work		5	1	4
	PC3. address the problems effectively and report if required to immediate supervisor appropriately		5	1	4
	PC4. receive instructions clearly from superiors and respond effectively on same		5	1	4
	PC5. communicate to team members/subordinates for appropriate work technique and method		5	1	4

	PC6. seek clarification and advice as per requirement and applicability		10	2	8
	PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams		30	6	24
	PC8. work together with co-workers in a synchronized manner		30	6	24
		<b>Total</b>	<b>100</b>	<b>10</b>	<b>90</b>
<b>CON/N9001: Work according to personal health, safety and environment protocol at construction site</b>	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authorities	<b>100</b>	10	1	9
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities		10	1	9
	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable		5	0.5	4.5
	PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site		5	0.5	4.5
	PC5. identify near miss , unsafe condition and unsafe act		10	1	9
	PC6. use appropriate Personal Protective Equipment (PPE) as per work requirements including: <ul style="list-style-type: none"> <li>• Head Protection (Helmets)</li> <li>• Ear protection</li> <li>• Fall Protection</li> <li>• Foot Protection</li> <li>• Face and Eye Protection</li> <li>• Hand and Body Protection</li> <li>• Respiratory Protection (if required)</li> </ul>		10	1	9
	PC7. handle all required tools, tackles , materials & equipment safely		10	1	9
	PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines		10	1	9
	PC9. install and apply properly all safety equipment as instructed		10	1	9
	PC10. follow safety protocol and practices as laid down by site EHS department		10	1	9
	PC11. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes		10	1	9
	PC12. apply ergonomic principles wherever required		10	1	9
			<b>Total</b>	<b>100</b>	<b>30</b>

## EVIDENCE OF NEED

### **What evidence is there that the qualification is needed?**

Please refer to the attached list of job roles and occupations identified in construction sector. These job roles have been derived through extensive industry interactions facilitated from 10 workshops and various site visits conducted and interaction with 500+ representatives from different construction sector organizations all over the country.

Attached as Annexure 5

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

As per survey the incremental Manpower Gap between 2008 and 2022 found out to be 459000 under Roads & Runway Construction Occupation. The estimated uptake for the qualification is thus around 459000

### **What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?**

QPs for Job Roles of various related SSC's were studied to ensure that there is no duplicity.

### **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?**

Standards department of CSDCI will do periodic review and monitor the industry feedbacks, Training Partners feedback on the qualification and will incorporate them appropriately at the designated revision time.

The revision of this qualification is scheduled after 1 years i.e. 23/08/2017

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

Give details of the document(s) here:

1. List of job roles
2. Workshop interactions- Annexure 5

## 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.



Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level
<p>The job holder performs task which are repetitive such as shifting and storing materials, cleaning surface prior to laying pavement and shifting and placing of asphalt mix on surface of the road.</p> <p>These functions require little application of understanding and more of practice.</p>	<p>Job holder is expected to apply basic knowledge of handling and storing materials used for construction of pavements. The job holder should have knowledge about safe practice of handling hot asphalt and applying it on pavement surface as.</p>	<p>The jobholder handles and stores tools and construction materials and assists in pavement construction works at sites by cleaning surface of pavement, carrying out earthwork manually, shifting and placing asphalt mix under close supervision as per expected quality outcome. The job holder should adhere to safety norms of the organisation while carrying out these works.</p> <p>The above functions require limited service skills in a limited context.</p>	<p>The jobholder applies basic knowledge of reading, writing and basic arithmetic to comprehend instructions orally and effectively at construction sites.</p> <p>The job holder adheres to environmental and safety guidelines and carries out proper storing and stacking practices while performing various tasks.</p>	<p>The Job holder is not directly responsible for the outcomes of the works as the works are carried out under instruction and close supervision of trade seniors.</p>	2
<b>Level 2</b>	<b>Level 2</b>	<b>Level 2</b>	<b>Level 2</b>	<b>Level 2</b>	

**OTHER EVIDENCE OF LEVEL** [This need only be filled in where evidence other than primary outcomes was used to allocate a level] **(Optional)**

Summary of other evidence (if used): **Not applicable.**

## SECTION 4

### EVIDENCE OF RECOGNITION OR PROGRESSION

**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?**

Please refer to attached career path as per annexure 1 which clearly define the clear career path.

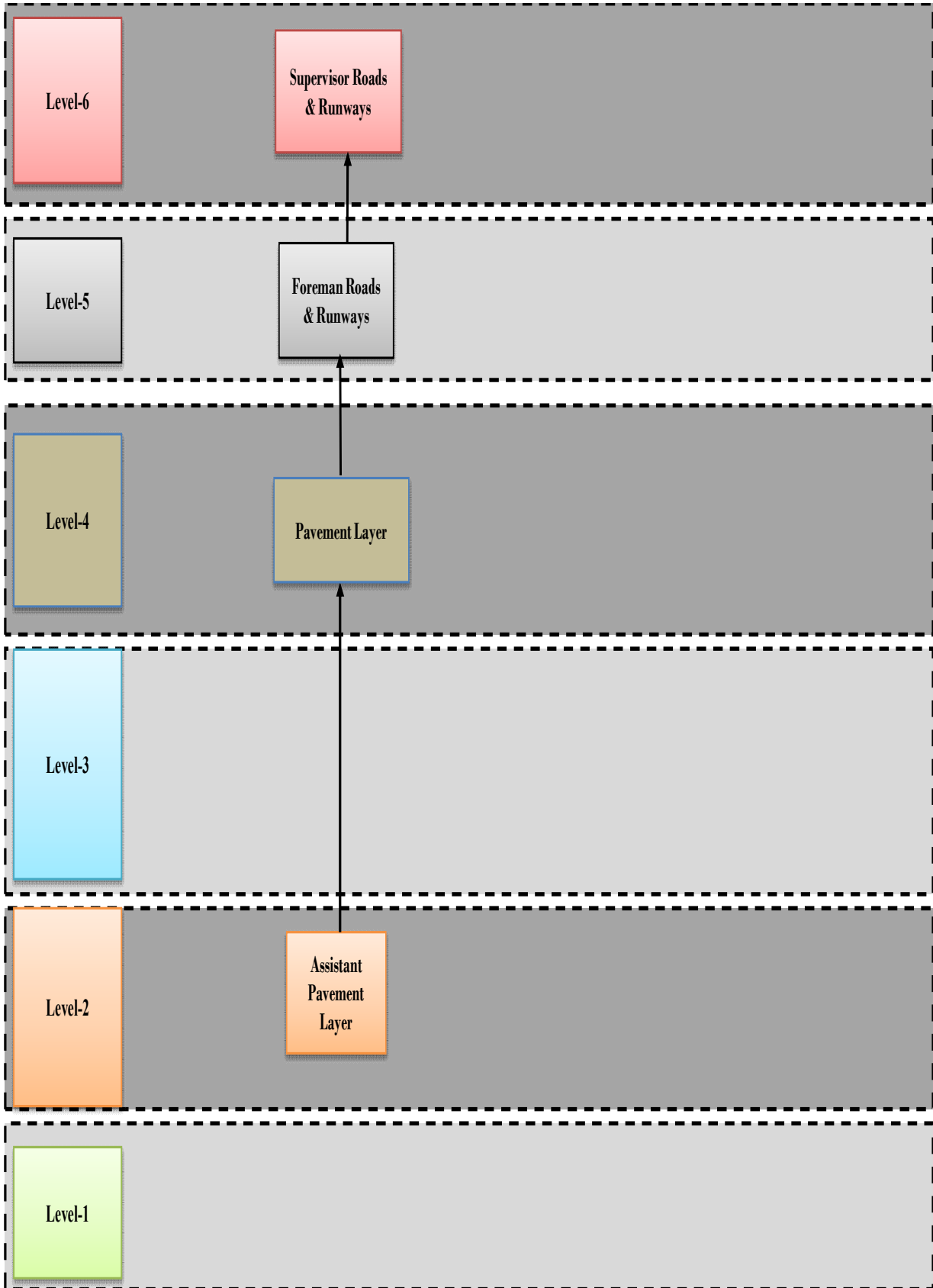
Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

1. Annexure 1
  - Overall Career map
  - Career map of Roads & Runway construction Occupation
2. QP CON/Q1001- Annexure 2

Annexure 1

Career Map



## Annexure 3: RPL Assessment Guideline/Policy

### 1 Guidelines and Implementation Strategy

Under RPL, the candidate can be certified in two ways:

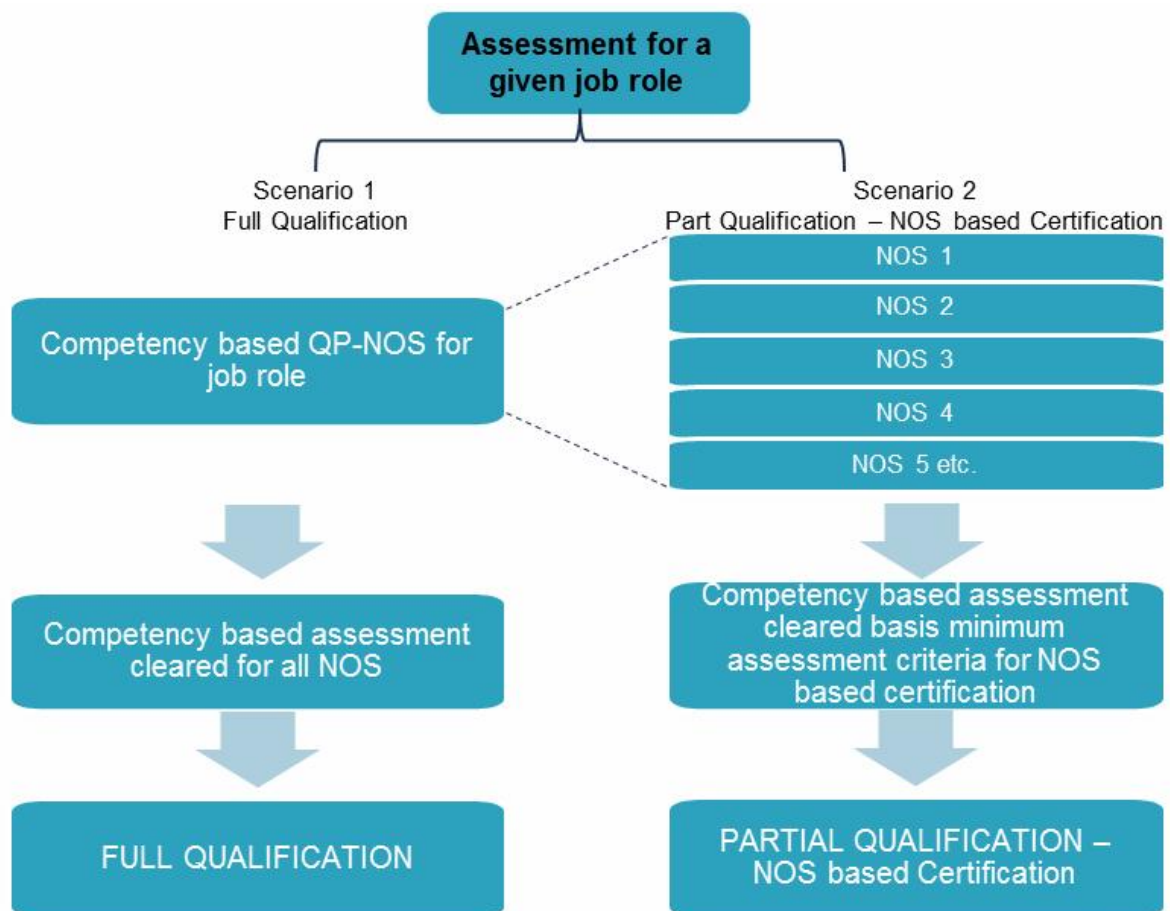
#### 1.1 **Full Qualification**

In this scenario, a candidate enrolled under RPL is assessed as per the assessment criteria of the QP-NOS of the selected job role. If the candidate clears competency based assessment under the designated Job Role, candidate is awarded a “Full Qualification” Certificate.

#### 1.2 **Partial Qualification –**

NOS Based Certification Under this scenario, a candidate enrolled under RPL is assessed as per the same QP-NOS. The SSCs have to define the minimum assessment criteria that the trainee has to attain for the QP-NOS in order to get NOS based certificate.

#### 1.3 **A pictorial representation of the process is below:**



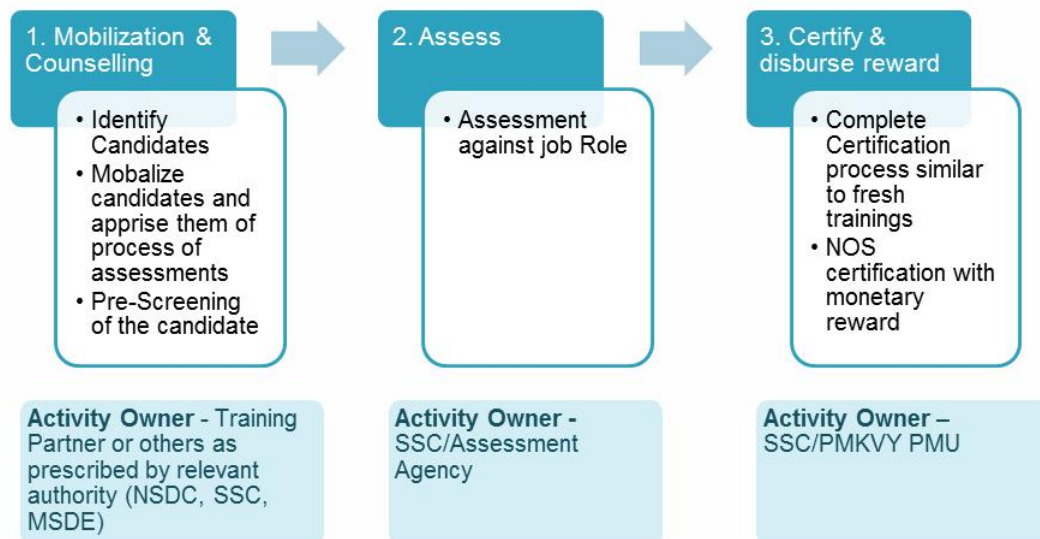
## 2 Detailed Strategy

2.1 RPL is a three step process

2.1.1 Mobilization & Counselling

2.1.2 Assessment

2.1.3 Certification & Reward Disbursement



### **3 Mobilization & Counselling**

- 3.1 The Training Partner (TP) or any other authority as prescribed by the Steering Committee will identify and counsel candidates eligible for RPL through mobilization camps & advertisements etc. The mobilized candidates can **be counselled, oriented about the standardized NSQF framework and basis their existing competency will be mapped against the suitable level of the concerned Job role for assessments.**
- 3.2 Candidates may be mobilized with the help of SSC's Industry (clusters) connect, associations and MSME connect. These will be in the form of Kaushal Melas, Registration camps in clusters and active marketing through local media such as Radio, Newspapers and hoardings.
- 3.3 TPs will also be required to provide orientation training to candidates covering the following aspects. This training will form as a part of pre-screening and bridge orientation of a candidate:
  - 3.3.1 What is PMKVY/NON PMKVY?
  - 3.3.2 Information about the Skill Mission and NSQF
  - 3.3.3 Benefits and process of PMKVY/NON PMKVY to the candidate
  - 3.3.4 Who/what is NSDC and a SSC?
  - 3.3.5 What is RPL and the need for it
  - 3.3.6 What is a QP?
  - 3.3.7 What is NOS?
  - 3.3.8 Orientation on Assessment Criteria
  - 3.3.9 What is the process of assessment and run through mock assessment questions
  - 3.3.10 Who is a Training Partner?

### **4 Pre-screening of candidates**

- 4.1 Pre-screening guidance, counseling and support will be provided to the candidates by the TP. SSCs will be required to establish a pre-screening criteria for their sector and make it available online. The Training Partners will be mandated to pre-screen the candidate basis of these criteria before the candidate undergoes assessment.

### **5 Assessment**

- 5.1 The candidates enrolled will be assessed by the Assessment Agency affiliated with the Sector Skill Council on the basis of assessment criteria decided by Sector Skill Council (SSC). The candidate will need to pass in the minimum assessment criteria of a particular QP decided by the SSC.
- 5.2 Assessment is very critical for the success of whole RPL process. There are possibly three ways through which a candidate can undergo the assessment process:
  - 5.2.1 Stand-alone assessment- Candidate approaches the assessment center on her/his own and gets her/himself assessed
  - 5.2.2 Worksite assessment- Assessment of the existing employees is carried out at the workshop/yard

5.2.3 Assessment at Training Centre- Assessment is carried out at the Training Centre.

5.3 Typically, SSC are required to give instructions to assess the candidates more through Practical Knowledge and demonstration e.g.

5.4 The assessment could include a theory and practical component with varying weightages respectively. This will be the prerogative of the SSC basis the sector and participating QP.

5.4.1 Theory assessment will be a Multiple Choice Question paper consisting of at least 20 questions.

5.4.2 Practical assessment will include the assessee actually demonstrating skills on the basis of the QP as required in the job role.

#### **5.5 The guidelines for the assessor to conduct the assessments are:**

5.5.1 Assessments have to be conducted in local languages wherever possible.

5.5.2 The assessment should be carried out in accordance with the assessment criteria.

5.5.3 Language, communication and expression used in assessment should be understandable and appropriate, to the candidate.

5.5.4 Questions based on practical assessment of the skills should be simple, direct and comprehensible.

5.5.5 In order to assess the proficiency of the subject knowledge, the candidate will take test developed by Assessment Agency keeping in view the literacy level of the candidate.

5.5.6 While assessing, the assessment agency will also review the evidence submitted by the candidate i.e. confirm the identity of the candidate, physical verification of the documentation provided.

## **6 Certification & Reward Disbursement**

6.1 Successfully assessed candidates with a valid Aadhaar or alternate ID (as per process) will be eligible for either “Full Qualification” or “Partial Qualification – NOS based Certification” as described above under Overall Approach of RPL. The reward in both cases will be the same (as per Sector, QP and NSQF Level)

6.2 Certified candidates with valid bank details will be processed for reward money by NSDC.

## **Annexure 4: Detailed Assessment Plan**

### **ASSESSMENT OF TRAINEES: PROCESS & PROCEDURE TO BE ADOPTED**

The assessment has to comprise of two components, namely:

1. Knowledge assessment (theory/viva assessment)
2. Skill assessment (practical/hands-on skill assessment)

### **MODE OF ASSESSMENT**

1. Demonstration/Practical for Performance /Skill Assessment
  2. Synoptic multiple choice question test.
  3. Viva
- } For Knowledge Assessment

### **COMPONENTS OF ASSESSMENT:**

#### **1. Performance/Skill Assessments**

The performance/skill assessment will be conducted through demonstration/practical

#### **Demonstration /Practical Assessment**

There will be practical task for core NOS's which the trainee must attempt and demonstrate the occupational skills acquired to pass. Also the practical skill for generic NOS would be judged while carrying out practical task for core NOSs. Practical assessment is externally set and externally marked.

Trainees must attempt and pass the practical test which is assessed through a given task. The basis for practical task is the performance criteria provide in the NOS of the Qualification Pack.

The assessment will be conducted in a simulated working environment. Due to this fact, the assessors must note that the naturally occurring evidence of competence is unavailable or infrequent. Simulation must be undertaken in a Realistic Working Environment which provides an environment that replicates the key characteristics of the workplace in which the skill to be assessed is normally employed.

Scheduling of the practical task assessments is flexible but to retain integrity of the assessment, they should be carried out as closely as possible to the written assessments.

#### **Introducing the practical assessment to trainees**

It will be beneficial to take trainees through what is required in the practical assessments and the way in which each part will be graded. Trainees should have an opportunity to familiarise themselves with the way the tasks are graded.

Trainees may refer to their faculty for guidance on parts of the practical assignments only, though they should be aware that, especially for the practical assessments, the amount of guidance and support they are given may be reflected in the feedback and performance.



## **2. Knowledge Assessment**

The knowledge assessments are conducted through written test and viva.

### **2.1. Synoptic multiple choice question (MCQ) test**

Synoptic test is an MCQ (Multiple Choice Question) test to assess the underpinning knowledge. The synoptic MCQ tests are externally set and externally marked. This test is to be taken by the trainee after completion of all the units under controlled and invigilated conditions as closed-book test under the supervision of an assessor. Trainees can only achieve whole marks; half marks for partially answered questions are not permitted. Selection of two or more options will be marked as wrong. The answers should to be marked by pen only.

The test may be conducted by the assessor in the oral mode, if required, considering the lack of reading and comprehending acumen (skills) of trainees. In such cases, the assessor will mention it on top of the MCQ submitted.

### **2.1. Viva**

Trainees are required to take the viva test **along with** their practical observation test which is an extended part of the practical observation and assessment. The viva assessments are externally set and externally marked.

### **ASSESSMENT LOCATION**

Assessment location can be one or a combination of following. Prior arrangements are to be ensured by the assessment agency in conjunction with all stakeholders

1. Training providers premise
2. Workshops, Labs
3. On-site assessment

### **ASSESSMENT CONTEXT:**

Assessment of trainees will be conducted at the end of the training. The assessing body is to liaise with the training provider and schedule assessments accordingly.

For assessments to be fair, the assessment bodies are to ensure that the assessment process is valid, reliable, flexible and fair. Assessments are to be planned in conjunction with the training timelines and periodicity, as defined for specific trainings based on National Occupational Standards (NOS).

### **CRITERIA FOR DECISION**

Assessments for the various job roles are conducted to gauge and assess the trainees' competencies and professional expertise as well as their skill and knowledge in the specified areas.

During the practical task, trainees will be assessed on their workmanship, quality of finished product, time management, etc., based on the performance criteria (PC), knowledge and understanding and

their professional and soft skills as specified in the qualification pack. They will be graded for all their assessments based on the approved assessment strategy which is signed off by CSDCI.

Assessors must ensure that assessment decisions involve collection and evaluation of sufficient evidence to enable a judgment to be made on the student's competence. An assessment should not place unnecessary demands on students which may prevent them from demonstrating competence

### **KEY COMPONENTS OF THE ASSESSMENT PROCESS**

**1. Competence:** Individuals are considered competent when they are able to consistently apply their knowledge and skills to the standard of performance required in the workplace. Both workplace and off the job training and assessment shall aim to ensure that individuals participating in the training have the competence to undertake their work role to the standard expected in a range of employment situations.

**2. Competency based Assessment:** It is the process of collecting evidence and making judgments on whether competence has been achieved. This confirms that an individual can perform to the standard expected in the workplace as expressed in the National Occupational Standards.

**3. Collection of Evidence:** Evidence collected may be direct, such as observation of workplace performance/hands on exercises or indirect, such as formal testing.

**4. Evidence of Assessment:** Standard assessment criteria sheet filled by each AB along with photographic/videography/documentary evidences are submitted to CSDCI

**5. Judging Competence:** An individual is considered competent after he/she has successfully completed an assessment covered under assessment criteria is achieved with the specified passing score.

**6. Methodology of Assessment:** Assessment may involve a variety of assessment methods. Can vary from assessor to assessor. However, the process is to broadly comprise of Knowledge & Skill assessments, with the later involving practicals/hands on work assessment.

**7. Standards against which the students are to be assessed:** National Occupational Standards pertaining to the concerned job role.

**Annexure 5: Workshop Interaction**

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