

Revised Application Documentation: Version 5 /22 May, 2015

QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY

Name and address of submitting body:

Construction Skill Development Council of India

Address:- 204, Aashirwad Complex, D-1, Green Park, New Delhi - 110016

Tel: +91-11-46584466

Name and contact details of individual dealing with the submission

Name: Ms. Jancy Mathew

Position in the organisation: Head Standards and Research

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Same as above

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List of documents submitted in support of the Qualifications File

1. Career Map of Assistant Mason- Annexure 1
2. QP CON/Q 0102- Annexure 2

3. QUALIFICATION FILE SUMMARY

Qualification Type	Assistant Mason- CON/Q0102		
Body/bodies which will assess candidates	<ul style="list-style-type: none"> • MCG • Star Projects 		
Body/bodies which will award the certificate for the qualification.	CSDCI		
Body which will accredit providers to offer the qualification.	CSDCI		
Occupation(s) to which the qualification gives access	Masonry		
Proposed level of the qualification in the NSQF.	2		
Anticipated volume of training/learning required to complete the qualification.	350 hrs		
Entry requirements / recommendations.	5th Standard / Helper Mason Level-1 qualified		
Progression from the qualification.	Mason General Level3		
Planned arrangements for RPL.	The curriculum is in place for 56 hrs. It has pre assessment having components of generic NOS and technical NOS and demonstration as well		
International comparability where known.	Compared with UK NOS		
Formal structure of the qualification			
Title of unit or other component (include any identification code used)	Mandatory/ Optional	Estimated size (learning hours)	Level
CON/N0001: Health, Safety & Environment applications in Masonry Occupation	Mandatory	30	2
CON/N0003: Material Handling & Storing	Mandatory	48	2
CON/N0006: Erection and dismantling of 3.6 meter temporary scaffold	Mandatory	36	2
CON/N0033: Building of Brick / Block Foundation & Walls	Mandatory	60	2
CON/N0034: Fixing Door & Window frames in room / cubical	Mandatory	48	2
CON/N0035: Methods & Type of Plastering	Mandatory	56	2
CON/N0036: Brick soling & PCC Flooring	Mandatory	72	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/Q0102- Annexure 2

ASSESSMENT

Name of assessment body:

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

- MCG
- Star Projects

Will the assessment body be responsible for all assessment and for all candidates?

Yes/No

Explain how assessment for the qualification will be carried out and quality assured to achieve consistency.

- Practical
- Theory
- Viva Voce

Will the assessment body be responsible for RPL assessment?

Yes/No

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

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:

Assessment is done through third parties who are affiliated to CSDCI as Assessment Body. Assessors are trained & certified by CSDCI through Training of Trainers program. The assessment involves two processes. The first process is gathering the evidence of the competency of individuals. The second part of the assessment process is the judgement as to whether a person is competent or not. The assessment plan contains the following information:

- What will be assessed, i.e. the competency based on each NOS
- How assessment will occur i.e. methods of assessment
- When the assessment will occur
- Where the assessment will take place i.e. context of the assessment (workplace/simulation)
- The criteria for decision making i.e. those aspects that will guide judgements and
- Where appropriate, any supplementary criteria used to make a judgement on the level of performance.

The assessment is conducted through theory, viva voce and practical.

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

Give details of the document(s) here:

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 Mason

CON/Q0102

Construction Skill Development Council Of India

Guidelines for Assessment

1. Criteria for assessment for Qualification Pack has been created based on the NOSs and performance criteria by CSDCI. Each Performance Criteria (PC) has been assigned marks proportional to its importance within NOS and weightages have also been given among the NOSs accordingly. CSDCI has laid down the proportion of marks for Skills, Theory/Knowledge and Behaviour / Attitudes for each PC.
2. The assessment of the theory/knowledge will be based on written test/viva-voce or both while skill test shall be hands on practical. Behavior and attitude will be assessed while performing the task.
3. The assessment shall be done as per the assessment sheets devised by CSDCI and accordingly the assessment agencies in consultation with CSDCI will create unique question papers for theory/knowledge and attitude for each candidate at each CSDCI accredited testing centers (as per assessment criteria below).
4. The assessment agencies will conduct the assessment as per the guidelines given by CSDCI giving unique evaluations for skill & knowledge for every student at each CSDCI accredited testing center.
5. To pass the Qualification Pack, every trainee should score a minimum of 80% in Skill, 50% in Knowledge & Behavior and 50% in Written test separately in each attribute. In addition, he should pass in each NOS with minimum 40% marks.
6. Each student at Level-2 has to pass in Skill, Knowledge and Behavior as per the percentage given below in totality while individual failing to score minimum pass marks of 40% in any one of the NOS then he will have to re-appear for that one NOS only within 60 days of his test for final certification. After 60 days he will have to appear in all NOSs.

Assessable Outcome	Assessment criteria	Total Marks (225)	Out Of	Marks Allocation	
				Theory	Skills Practical
1. CON/N0001 : Health, Safety & Environment	PC1: Demonstrate and use Personal Protective Equipment such as Head Protection, Fall Protection, Foot Protection, Face & eye Protection, Ear Protection, Hand & Body Protection and Respiratory Protection.	22	22	2	4
	PC2: Follows Do's and Don'ts during working at heights			1	3
	PC3: Carry out various safety measures, mock drills, relevant to task during work and evacuation at emergency			2	3
	PC4: First Aid Practice such as use of basic dressing materials and bandages resuscitation practices			1	2
	PC5: Ensure safe waste disposal and pollution control of organic and inorganic waste material, use of sound and noise control and			2	3

	protection methods				
		Total	22	8	15
2. CON/N0003: Material handling and Storing	PC1: Lift & shift the materials by involving push and pull activities in accordance with workplace EHS requirement.	31	31	1	3
	PC2: Follow standard methods and sequence of loading, unloading of materials such as cement, steel, sand, aggregate, paint, wood etc.			1	3
	PC3: Lifting, loading and unloading materials effectively as a team and individually also			1	3
	PC4: Carry loose fluid materials like chemicals, form-oil, fuel & admixtures			1	2
	PC5: Handle different materials such as sand, bricks, blocks & metals			1	4
	PC6: Follow standard practices in storing and stacking cement, steel, wood, aggregate, paints, and inflammable and other construction materials.			1	4
	PC7: Shift efficiently materials such as brick, sand, mortar, concrete etc. From the bottom level of temporary scaffolding to the work level			1	6
				Total	31
3. CON/N0006 : Erect and dismantle 3.6 meter temporary Scaffold	PC1: Arrange, shift, and stack the required materials, tools and tackles at the identified location.	23	23	2	5
	PC2: Use the required safety gadgets and follow trade safety during erection and dismantling operation			1	3
	PC3: Erect and dismantle 3.6 meter temporary scaffold within stipulated time			2	6
	PC4: Maintain tidiness at sites			1	3
				Total	23
4. CON/N0033 : Building of Brick/Block foundation and walls	PC1: Marking and layout for walls & foundations.	37	37	.5	1
	PC2: Estimation of required material quantity for given task			.5	1
	PC3: Set brick using known bonds			.5	1
	PC4: Build one brick straight wall using English bond.			.5	3
	PC5: Build one brick & one and half brick corner wall using English bond			1	3

	PC6: Build one and one and half brick wall T-Junction using English bond			1	3
	PC7: Build one brick straight wall using Flemish bond			.5	3
	PC8: Build one brick 'T' Junction using Flemish bond			1	3
	PC9: The tolerance limit for PC4 to PC8 shall be as given below: <ul style="list-style-type: none"> • Overall length of wall should be $\pm 4\text{mm}$ • Length of perpendicular wall should be $\pm 4\text{mm}$ • Regular joint thickness should be $\pm 3\text{mm}$ • Level to top course should be $\pm 5\text{mm}$ • Internal squareness – fair side should be $\pm 4\text{mm}$ • Squareness – other side should be $\pm 5\text{mm}$ • Plumb to overall height should be $\pm 5\text{mm}$ • Wall alignment should be $\pm 5\text{mm}$ in 3m • Pointing on both faces should be acceptable 			1	3
	PC11: Identify different types of block (Concrete/Fly Ash/ Hollow / Light weight etc.)			.5	2
	PC12: Use blocks as per requirement			.5	1
	PC13: Lay the blocks in straight wall corner			.5	1
	PC14: Layout and erection of straight wall and corners			.5	2
	PC15: Pointing on both face of wall			.5	1
		Total	37	9	28
5. CON/N0034 : Fixing door and window frames in room/cubical	PC1: Mark, layout and build room / cubical including door and window.	39	39	1	4
	PC2: Estimate required quantity of material for given task			1	4
	PC3: Check the holdfast position and grout it between bricks / blocks of wall			1	4
	PC4: Join wooden / aluminium rough ground for door and window fixing			3	10
	PC5: Fill the gap between wall and door frame with non-shrink material			1	4

	<p>PC6: The tolerance limit for PC4 to PC5 shall be as given below:</p> <ul style="list-style-type: none"> • Frame location should be $\pm 4\text{mm}$ • Frame alignment should be $\pm 2\text{mm}$ • Frame verticality (Plumb) should be $\pm 2\text{mm}$ • Frame top level horizontal should be $\pm 2\text{mm}$ • Consistent gap between frame and wall should be $\pm 5\text{mm}$ • Consistent gap between frame and lintel should be $\pm 5\text{mm}$ • Consistent gap between frame and sill should be $\pm 4\text{mm}$ • Hold fast / Rawl plugs location & grouting as per instruction • Protection to alignment should be firm • Sequence, finish and housekeeping should be acceptable 			2	4
		Total	39	9	30
6. CON/N0035 :Method and type of plastering	PC1: Identify and use plastering tools and equipments.	37	37	.5	2
	PC2: Identify different type of plastering materials e.g. cement / lime based			.5	2
	PC3: Prepare mortar as per given ratio			1	4
	PC4: Fix chicken mesh & non-shrink material with pebbles in joints on concrete and brick wall joints			1	6
	PC5: Set out the button mark position			1	6
	PC6: Carry out plain face plaster (Single Coat and Double Coat Plaster)			2	4
	PC7: The tolerance limit for PC3 to PC6 shall be as given below:			3	4
	<ul style="list-style-type: none"> • Plaster thickness should be $\pm 3\text{mm}$ • Surface evenness should be $\pm 3\text{mm}$ • Plumb to overall height should be $\pm 2\text{mm}$ • Corner straightness should be truly straight 				
	Total	37	9	28	

7. CON/N0036 : Brick soling and PCC flooring	PC1: Levelling and compaction of back filling as per requirement	36	36	1	3
	PC2: Soaking of bricks before lay			.5	2
	PC3: Fill gap in bricks with sand / suitable filling material			.5	3
	PC4: Check the level of finished surface			.5	2
	PC5: Carry out surface preparation			.5	2
	PC6: Carry out the screeding			2	5
	PC7: Fixing glass / PVC stiffs on floors			2	5
	PC8: Place concrete / mortar in the panels as specified			1	6
				Total	36

QUALIFICATION FILE SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

Please refer to the attached list of job roles and occupations as per the attachment and their career paths as per Annexure 1, which have been derived through extensive industry interactions facilitated from 10 workshops, and site visits conducted and interaction with 500+representatives from different organizations all over the country.

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

The incremental Manpower Gap between 2008 and 2022 is 14,19,000 under Masonry Occupation

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?

The comments, feedback and suggestions were collected through interaction with industry during August'14 to Feb'15. The same will be compiled and justifiable changes will be incorporated in the next/updated version of the QP. This QP is set to be revised post 31st March 2015.

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

Assistant Mason- CON/Q0102					
Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level
<p>The assistant mason deals with narrow range of work and performs task such as setting and layout marking, laying of bricks/blocks, rendering coat plastering, fixing door and window frames and brick soling and PCC flooring. These functions require more of practise and less of application of knowledge as these are repetitive in nature requiring limited set of skills. Considering the outcomes the level is pegged at level-2.</p>	<p>Job holder is expected to have basic knowledge of tools and equipments required for masonry work ,basic processes and sequence of carrying of basic masonry works like the loading, unloading , shifting and stacking of material ,construction of wall and foundation ,brick soling and PCC flooring ,plastering and method and sequence of fixing door and window frames.</p> <p>Considering the narrow range of professional and factual knowledge that an assistant mason has for masonry occupation, this QP is pegged at level-2.</p>	<p>The job holder is expected to accept appropriate Personal protective equipment(PPE's)suitable for different working condition, provide basic first aid, select and use correct tools and materials for carrying out masonry works and store, shift and stack materials utilizing available tools and equipments.</p> <p>The above functions require limited service skills which are used in limited context for assisting in brick/block work thereby making the job holder least responsible and answerable for his/her actions in lieu of quality and timely completion of work.</p>	<p>The job holder requires basic knowledge of reading, writing and basic arithmetic to be able to comprehend instructions orally and effectively and relay them as per requirement through both written and oral means to assist in various tasks related to masonry.</p> <p>The job holder is also expected to adhere to guidelines and follow safety directives of the organisation while performing tasks such as storing and handling of materials, erection of scaffold, plastering, fixing doors and windows and PCC flooring.</p> <p>Considering these outcomes the job holder is placed at level-2.</p>	<p>The job holder is expected to complete task such as material handling and storing, building brick/block wall, fixing doors and window frames, plastering and PCC flooring while adhering to safety norms of the concerned organization. Since the job holder has to be detailed and specified about the methodology of task and needs to be constantly monitored and supervised by a competent superior for quality and timely completion, the job holders holds no responsibility</p>	2

				for outcomes such as tagging and bagging of materials, quality of brick/block work, levelling of plastering coat and finish of PCC flooring. Considering these outcomes the job holder is placed at level-2.	
Level-2	Level-2	Level-2	Level-2	Level-2	

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):

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 defines the career path.

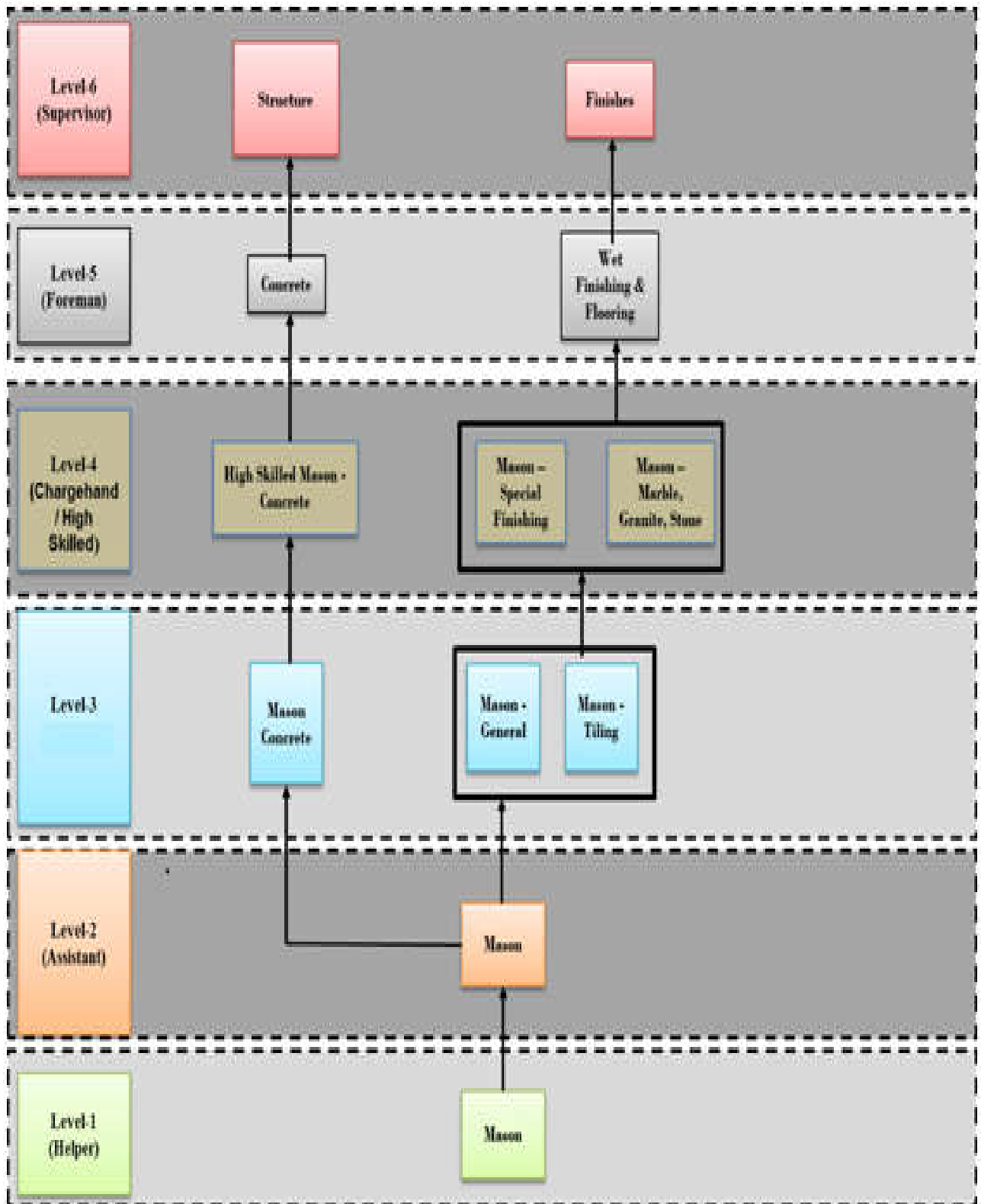
Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

1. Career Map of Assistant Mason - Annexure 1
2. QP CON/Q 0102- Annexure 2

Annexure 1

Career Map



Annexure 2- QP CON/Q 0102