

Approved in 23rd NSQC, Dated: 22nd August, 2019

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

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Construction Skill Development Council of India

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List of documents submitted in support of the Qualifications File

1. Career Map of Scaffolding Occupation - Annexure 1
2. QP CON/Q0314- Annexure 2
3. RPL Assessment Guideline/Policy-Annexure 3
4. Detail Assessment Plan- Annexure 4
5. Workshop Interaction – Annexure 5
6. Model Curriculum for Assistant Scaffolder-System- Annexure 6
7. Training provider's Affiliation protocol- Annexure 7
8. Assessment Body Affiliation Protocol- Annexure 8
9. Industry Validations- Annexure 9
10. Details of trained, Certified and Places candidates till date- Annexure 10

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11. QUALIFICATION FILE SUMMARY

1	Qualification Title	Assistant Scaffolder- System
2	Qualification Code, if any	CON/Q0314
3	NCO Code and Occupation	NCO-2004/9313.90, NCO-2015/ 9313.9900 Scaffolding
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	This job role is responsible for providing assistance in erection, dismantling and maintaining of various types of customized system scaffold. The individual should have good knowledge of safe working practices and procedures while working at heights
5	Body/bodies which will award the qualification.	CSDCI
6	Body which will accredit providers to offer courses leading to the qualification.	CSDCI&NSDC
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes, please refer Annexure 7 and Annexure 8
8	Occupation(s) to which the qualification gives access	Scaffolding
9	Job description of the occupation	This job role is responsible for providing support in erection, dismantling and maintenance of common customized system scaffold under instruction and close supervision.
10	Licensing Requirements	N.A
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	N.A
12	Level of the qualification in the NSQF.	3
13	Anticipated volume of training/learning required to complete the qualification.	350 hrs

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14	Indicative list of training tools required to deliver this qualification	Please refer to Model Curriculum attached as annexure												
15	Entry requirements and/or recommendations and minimum age	5th Standard 18 Yrs												
16	Progression from the qualification (Please show Professional and academic progression)	Scaffolder System - 4												
17	Arrangements for the Recognition of Prior learning (RPL)	RPL is already in place for this qualification. Same process will be followed.												
18	International comparability where known (research evidence to be provided)	<table border="1"> <tr> <td>INDIAN NOS</td> <td>Comparable UK/Australia NOS</td> </tr> <tr> <td>CON/N 0354: Assist in erection and dismantling of scaffold using pipe and coupler</td> <td>Comparable Australia NOS: CPCSC2002A: Erect and dismantle basic scaffolding</td> </tr> <tr> <td>CON/ N 0355: Assist in erection and dismantling of common customized system scaffold</td> <td>Comparable Australia NOS: CPCSC3001A: Erect and dismantle intermediate scaffolding</td> </tr> <tr> <td>CON/ N 8001: Work effectively in a team to deliver desired results at the workplace</td> <td>Comparable UK NOS COSVR642: Conform to productive work practices</td> </tr> <tr> <td>CON/ N 9001: Work according to personal health, safety and environment protocol at construction site</td> <td>Comparable UK NOS: COSVR641: Conform to general workplace health, safety and welfare</td> </tr> </table>			INDIAN NOS	Comparable UK/Australia NOS	CON/N 0354: Assist in erection and dismantling of scaffold using pipe and coupler	Comparable Australia NOS: CPCSC2002A: Erect and dismantle basic scaffolding	CON/ N 0355: Assist in erection and dismantling of common customized system scaffold	Comparable Australia NOS: CPCSC3001A: Erect and dismantle intermediate scaffolding	CON/ N 8001: Work effectively in a team to deliver desired results at the workplace	Comparable UK NOS COSVR642: Conform to productive work practices	CON/ N 9001: Work according to personal health, safety and environment protocol at construction site	Comparable UK NOS: COSVR641: Conform to general workplace health, safety and welfare
INDIAN NOS	Comparable UK/Australia NOS													
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CON/ N 0355: Assist in erection and dismantling of common customized system scaffold	Comparable Australia NOS: CPCSC3001A: Erect and dismantle intermediate scaffolding													
CON/ N 8001: Work effectively in a team to deliver desired results at the workplace	Comparable UK NOS COSVR642: Conform to productive work practices													
CON/ N 9001: Work according to personal health, safety and environment protocol at construction site	Comparable UK NOS: COSVR641: Conform to general workplace health, safety and welfare													
19	Date of planned review of the qualification	24-07-2023												
20	Formal structure of the qualification													
	Title of unit or other component (include any identification code used)	Mandatory/ Optional	Estimated size (learning hours)	Level										
	CON/N 0354: Assist in erection and dismantling of scaffold using pipe and coupler	Mandatory	133	3										

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	CON/ N 0355: Assist in erection and dismantling of common customized system scaffold	Mandatory	142	3
	CON/ N 8001: Work effectively in a team to deliver desired results at the workplace	Mandatory	23	3
	CON/ N 9001: Work according to personal health, safety and environment protocol at construction site	Mandatory	48	3

SECTION 1

ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>If there will be more than one assessment body for this qualification, give details.</p> <ul style="list-style-type: none">• Skill Training Assessment Management Partners Ltd• Palmary Project & Services Pvt Ltd (Formerly known as Palmary Constructions Private Limited)• Star Project Services Pvt Ltd• Proximo Education Society• Mirams Training Services India (P) Ltd• Demorgia Consulting Services Pvt Ltd• SP Institute of Workforce Development Pvt Ltd• Iassess Consultants LLP• Shiksha Bharti• Sankalp Vikas Samiti• Navriti Technologies Pvt Ltd
22	<p>How will RPL assessment be managed and who will carry it out?</p> <p>Give details of how RPL assessment for the qualification will be carried out and quality assured.</p> <p>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.</p>
23	<p>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:</p>

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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 most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

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24. 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 Scaffolding- System

CON/Q0314

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 centre 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.

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Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation						
		Total Mark	Out Of	Theory	Practical Skills			
CON/N0354: Assist in erection and dismantling of scaffold using pipe and coupler	PC1. prepare base by leveling and compacting ground for erection of scaffold	100	20	6	14			
	PC2. select, shift and stack required quantity of materials, components at work location as per the instructions							
	PC3. barricade the working area and fix guard rails, safety nets for safe working conditions							
	PC4. assist in marking, transferring of levels from reference points using water level tube							
	PC5. check condition of coupler, pipes and fixtures for any bend and deviation from shape							
	PC6. select swivel coupler, right angle coupler (fixed coupler) based on requirements of scaffold fixing		40	12	28			
	PC7. select pipes based on nominal bore diameter and length and check for any bend in pipes							
	PC8. erect scaffold using pipes and coupler in a sequential manner and provide necessary support using suitable components as per the instructions							
	PC9. fix coupler, clamps tightly as per the instructions							
	PC10. assist in aligning and providing support to scaffold as per the instructions							
	PC11. assist in checking verticality of scaffold							
	PC12. place and fix appropriate plank board / walk boards, guard rail, toe board and other accessories for working							
	PC13. erect scaffold using pipes and coupler in single and double staging in a sequential manner and provide necessary support using suitable components as per the instructions					40	12	28
	PC14. lower scaffold materials in safe manner							
	PC15. clean and scaffold materials for further							

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	use				
	PC16. follow standard safety procedure and housekeeping practices				
		Total	100	30	70
CON/N0355: Assist in erection and dismantling of common customized system scaffold	PC1. prepare base by levelling and compacting ground for erection of scaffold		20	6	14
	PC2. select, shift and stack required quantity of materials, components at work place as per instructions				
	PC3. barricade working area and fix guard rails, safety nets for safe working conditions				
	PC4. assist in marking, transferring of levels from reference points using water level tube	100	40	12	28
	PC5. visually check tools and components prior to use and report if needs to be changed				
	PC6. select components based on type of scaffold used				
	PC7. place sole board/base plates on ground as per marking				
	PC8. fix correct fixtures and components as per system and instructions				
	PC9. erect scaffold in a sequential manner and provide necessary support as per instructions				
	PC10. shift components from lower level to upper level using suitable lifting tools and equipments				
	PC11. assist in aligning and providing support to scaffold as per instructions				
	PC12. assist in checking verticality of scaffold				
	PC13. place and fix appropriate plank board / walk boards, guard rail, toe board and other accessories for working platform				
	PC14. assist in dismantling of scaffold in a sequential manner safely under instructions	40	12	28	
	PC15. lower scaffold materials in safe manner				
	PC16. clean and store scaffold materials for further use				
	PC17. follow standard safety procedure and housekeeping practices				
	Total	100	30	70	

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CON/N8001: Work effectively in a team to deliver desired results at the workplace	PC1. pass on work related information/ requirement clearly to the team members	100	40	12	28
	PC2. inform co-workers and superiors about any kind of deviations from work				
	PC3. address the problems effectively and report if required to immediate supervisor appropriately				
	PC4. receive instructions clearly from superiors and respond effectively on the same				
	PC5. communicate to team members/subordinates for appropriate work technique and method				
	PC6. seek clarification and advice as per the requirement and applicability				
	PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams				
	PC8. work together with co-workers in a synchronized manner				
	Total		100	30	70
CON/N9001: Work according to personal health, safety and environment protocol at construction site	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority	100	30	10	20
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities				
	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable				
	PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site				
	PC5. select and operate different types of fire extinguishers corresponding to types of fires as per EHS guideline				
	PC6. identify near miss , unsafe condition and unsafe act				
	PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements including: • Head Protection (Helmets)				
		50	15	35	

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<ul style="list-style-type: none"> • Ear protection • Fall Protection • Foot Protection • Face and Eye Protection, • Hand and Body Protection • Respiratory Protection (if required) 				
PC8. handle all required tools, tackles , materials & equipment safely				
PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines				
PC10. install and apply properly all safety equipment as instructed				
PC11.follow safety protocol and practices as laid down by site EHS department				
PC 12. undertake and pass height pass test as per EHS guidelines				
PC13. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes	20	5	15	
PC14.apply ergonomic principles wherever required				
	Total	100	30	70

SECTION 2

25. EVIDENCE OF LEVEL

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OPTION A

Title/Name of qualification/component: Enter the title here Add level Number			
NSQF Domain	Outcomes of the Qualification/ Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>This job role is expected to perform tasks such as</p> <ul style="list-style-type: none"> • Assist in erection and dismantling of common customized scaffold • Assist in erection and dismantling of scaffold using pipe and coupler 	<p>This Functions performed by this job role are limited to providing assistance to scaffold-system in execution of overall task. As the preparatory work for erection of scaffold, erection and dismantling of scaffold is repeated multiple times within a project and tools used are not complex in operation This makes work routine and predictable</p>	
Professional knowledge	<p>The job holder is expected to have the knowledge of</p> <ul style="list-style-type: none"> •Tools, materials, accessories used in erection and dismantling of bamboo ballis common customized scaffold and pipe and coupler •Unit conversion and measurement •Standard Process and principles involved in Erection and dismantling of scaffolds •safety norms and working practices required in scaffolding work 	<p>The job role possesses knowledge required for performing functions which are limited to basic facts about tools, tackles and equipment and materials required in erection and dismantling operations of common customized scaffolding and pipe-coupler. An individual at this level is expected to have knowledge of process followed and principles employed in carryout out the function of erection and dismantle of common customized scaffold to which be performed under this job</p>	

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		role	
Professional skill	<p>The job role is expected to possess the skills required for:</p> <ul style="list-style-type: none"> •prepare base by levelling and compacting ground for erection of scaffold •Assist in marking, transferring of levels from reference points. •Assist in Erect and maintain bamboo-common customized scaffold and pipe -coupler •Assist in Dismantle common customized scaffold and pipe-coupler scaffold 	<p>This job role performs tasks related to scaffolding work which are similar in terms of procedures, tools employed, and familiar work conditions. As the major function of the job role is to perform smaller works to assist Construction scaffolder in various functions, the skills demonstrated are applicable in very narrow range of operations and thus are repetitively applied on a routine basis.</p>	
Core skill	<p>The job holder applies basic knowledge of reading ,writing for</p> <ul style="list-style-type: none"> •Understanding instruction from superiors verbally and written •Communicate clearly and concisely information to the co-workers in verbal and written form. <p>Individual at this job role is expected to apply basic knowledge of arithmetic calculation to</p> <ul style="list-style-type: none"> •Convert Units of measurement •Perform markings and measurement 	<p>This job role is able to demonstrate written and oral skills to pass on information with required clarity to seniors and co-workers required for completing a task as a team and perform basic arithmetic calculation and unit conversion required for marking and measurement while performing tasks under scaffolding work.</p>	
Responsibility	<p>This job role is responsible for providing assistance in erection, Dismantling and maintaining of common customized scaffold and pipe-coupler scaffold</p>	<p>The job role works under supervision of superior for erection and dismantling of common customized and pipe-coupler scaffold</p> <p>Some responsibility for certain tasks such as preparing base of scaffold</p>	

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		area, selection of coupler and pipes shifting and stacking of materials.	
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OPTION B

Title/Name of qualification/component: Enter the title here Add level Number			
NSQF Domain	Key requirements of the job role	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process			
Professional knowledge			
Professional skill			
Core skill			
Responsibility			

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SECTION 3

EVIDENCE OF NEED

26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?		
	Basis	In case of SSC	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)
	Need of the qualification	<p>CSDCI had undertaken extensive interactions with Construction Industry through 10 workshops organised throughout INDIA, and through many site visits to identify and finalise the existing list of job roles. The need for the qualification is further emphasised by the validations obtained for this job role from construction organisations. The details of the workshops and site visits along with the validations is enclosed additionally and submitted along with this file.</p>	
Industry Relevance	<p>CSDCI has undertaken the process of obtaining validations of the job roles and by interacting with the construction industries that actually employ these workmen, initially in 2015 when the job roles were created CSDCI got 32 validations from the industry. Now, after review of the QP CSDCI has again obtained 54 validations with the industry split as</p> <ol style="list-style-type: none">1. Large scale industry		

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		<p>(turnover > 1000 Cr.)- 10 validations</p> <p>2. Medium scale industry (turnover between 100 and 1000 Cr.) – 10 Validations</p> <p>3. Small scale industry (turnover < 100 Cr.)- 32 validations</p> <p>To ensure legitimacy of the industry validations, CSDCI had prepared an endorsement format and all validations have been obtained through the same and the communications are recorded on mail. These validations are enclosed additionally and submitted along with this file.</p>	
	<p>Use of the qualification</p>	<p>The uptake of this job role is delayed due the fact that the government schemes have restricted the SSC to take up only limited number of job roles (seven). However, due to recent developments and introduction of new policies (RPL-4), industry is getting involved in training and certification of this job role. As provided in Annexure 10 of this document, CSDCI has conducted training for more than 781 individuals of which more than 733 people are certified by CSDCI. More than 733 individuals were placed after clearing the course of Assistant Scaffolder-System. The year wise data is provided in Annexure 10. Placement data is available for last 4 years only.</p>	
	<p>Estimated Uptake</p>	<p>CSDCI had conducted</p>	

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		<p>research, analysis and assessment of skill gap in construction industry. The estimation of requirement of number of skilled manpower had been done on basis of findings of secondary research supplemented by primary research.</p> <p>The primary research was conducted on 66 companies and incremental manpower gap till 2020 had been extrapolated to estimate skill gap on an occupation wise basis. The secondary research statistics were taken into account to estimate the manpower/ skill gap within each occupation by categorising the job roles into 3 segments. These segments are</p> <ol style="list-style-type: none"> 1.Level 1&2 - segment 1 2.Level 3&4 - segment 2 3.Level 5&6 – segment 3 <p>The estimated uptake of the job role BY YEAR 2020 is 166496 The detailed findings are enclosed additionally and submitted along with this file</p>	
<p>27</p>	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences N/A</p>		
<p>28</p>	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</p>	<p>QPs of various related SSC's were studied to ensure that there is no duplicity of the functions, process adopted and environment of working in any existing</p>	

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	QP
29	<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? Specify the review process here</p> <p>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.</p> <p>The revision of this qualification is scheduled after 4 years i.e. 24/07/2023</p>

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

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SECTION 4

EVIDENCE OF PROGRESSION

30	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? <i>Show the career map here to reflect the clear progression</i>
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Please attach most relevant and recent documents giving further information about any of the topics above. Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

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