

QUALIFICATION FILE

Concrete Construction Work (WorldSkills)

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship

☒ Upskilling ☐ Dual/Flexi Qualification ☒ For ToT ☒ For ToA

☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 4.5

Submitted By:

Construction Skill Development Council of India

Address: Tower 4B, DLF Corporate Park, 201&, 202 4B, Mehrauli-Gurgaon Rd, DLF Phase 3, Gurugram, Haryana 122002

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Section 1: Basic Details

1.	Qualification Name	Concrete Construction Work (WorldSkills)																						
2.	Sector/s	Construction																						
3.	Type of Qualification: <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved)			Qualification Name of existing/previous version: NA																			
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA																						
5.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval)	QG-4.5-CO-01793-2024-V1-CSDCI, v 1.0			6. NCrF/NSQF Level: 4.5																			
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate																						
8.	Brief Description of the Qualification	A Concrete Construction Worker generally works on commercial and residential projects. There is a direct relationship between the nature and quality of the product required and the payment made by the customer. Therefore, the Concrete Construction Worker has a continuing responsibility to work professionally in order to meet the requirements of the customer and thus maintain and grow the business.																						
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: The Competitors must not be older than 22 years in the year of the Competition.																						
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	17			11. Common Cost Norm Category (I/II/III) (wherever applicable): I																			
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																						
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>150</td> <td>360</td> <td></td> <td></td> <td>510</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	150	360			510	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	150	360			510																			
Online																								
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7112.0200																						

15.	Progression path after attaining the qualification <i>(Please show Professional and Academic progression)</i>	NA	
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	NA	
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:	
18.	Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:	
19.	How Participation of Women will be Encouraged	Participation of women in skill competitions is essential to empower them. Women today form a significant part of the workforce, however, the recognition of their participation in it has always been vastly underestimated. One way to improve their meaningful participation is improving their skill capacity. Women today possess a variety of advantages in both technical and soft skills. For example, social skills, analytical skills, managerial skills, mechanical skills, and more. Skill initiatives must be taken to help with the growth of women in the workforce, our economy and our society. By following the mentioned strategies, we can ensure the participation of females in Skill Competitions: Equal access to Education, Awareness and Outreach, Role Models and Mentorship, Flexible Learning Opportunities, Financial Support (if required), Safe and Inclusive Spaces, Employer Partnerships, Networking Opportunities, Recognition and Rewards.	
20.	Are Greening/ Environment Sustainability Aspects Covered <i>(Specify the NOS/Module which covers it)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (CON/N4101)	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
22.	Name and Contact Details of Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Neha Sharma Dave Email: neha@csdcindia.org Contact No.: 0124-4513915-18 Ext-22 Website: www.csdcindia.org	
23.	Final Approval Date by NSQC: 06/02/2024	24. Validity Duration: 2 years	25. Next Review Date: 06/02/2026

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory **Pr.**-Practical **OJT**-On the Job **Man.**-Mandatory Training **Rec.**-Recommended **Proj.**-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Work organization, management and communication	CON/N4101	Non-core	4.5	2	20	40			60	30	70			100	10
2.	Interpretation of drawings	CON/N4103	Core	4.5	1	10	20			30	30	70			100	10
3.	Setting out and measurement	CON/N4104	Core	4.5	2	20	40			60	30	70			100	15
4.	Construction of Test Project (Concrete Construction Work)	CON/N4110	Core	4.5	9	80	190			270	30	70			100	50
5.	Quality Check and Handover	CON/N4105	Core	4.5	3	20	70			90	30	70			100	15
Duration (in Hours) / Total Marks					17	150	360			510	150	350			500	100

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: ____ % (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	B. Tech in Relevant Trade (2 Year) Diploma in Relevant Trade (3 Years) ITI in Relevant Trade (6 Years) General BA/BSc. / EX-Army/ 12th in Relevant Trade (6 Years)
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Graduate in Relevant Trade (8 years) Diploma in Relevant Trade (10 years) ITI in in Relevant Trade (13 Years)
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B. Tech in Relevant Trade (2 years) Diploma in Relevant Trade (5 years) ITI in Relevant Trade (7 years)
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B. Tech in Relevant Trade (2 years) Diploma in Relevant Trade (5 years) ITI in Relevant Trade (7 years)
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma in Relevant Trade (10 years) Graduate in Relevant Trade (8 years) ITI in in Relevant Trade (13 Years) General BA/B.Sc/Ex-Army/12 th in Relevant Trade (13 Years)
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): NA
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2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): NA
3.	Government /Industry initiatives/ requirement (Yes/No): NA
4.	Number of Industry validation provided: NA
5.	Estimated nos. of persons to be trained and employed: NA
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: NA If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)	Attached
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Attached
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Attached
4.	Annexure: Assessment Strategy (Mandatory)	Attached
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is "Blended Learning")	NA
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	NA
7.	Annexure: Acronym and Glossary (Optional)	Attached
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Attached
9.	Supporting Document: Career Progression (Mandatory - Public view)	NA
10.	Supporting Document: Occupational Map (Mandatory)	NA
11.	Supporting Document: Assessment SOP (Mandatory)	Attached
12.	Any other document you wish to submit:	Technical Description for Concrete Construction Work

Annexure 1: Evidence of Level

NCrf/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrf/NSQF level descriptor	NCrf/NSQF Level
Professional Theoretical Knowledge/Process	<ul style="list-style-type: none"> Process of carrying out IPS/ Tremix flooring Process of placing, leveling and finishing concrete in various structural elements including repairs 	As detailed, the entire process followed by Concrete Construction Worker is carrying out IPS/ Tremix flooring, placing, leveling and finishing concrete in various structural elements including repairs, etc.	4.5

	<ul style="list-style-type: none"> • Process of working effectively in a team to deliver desired results at the workplace • Process of planning and organizing work to meet expected outcomes • Process of working according to personal health, safety and environment protocols at construction site 	<p>As the work is routine and is repeated multiple times, the work becomes predictable.</p> <p>As the Concrete Construction Worker is required to perform the task as per the required codes and standards following the method statement available for the task, they have a clear work situation.</p>	
Professional and Technical Skills/ Expertise/ Professional Knowledge	<ul style="list-style-type: none"> • Know the standard practices for masonry work • Know how to use masonry tools along with some specialized tools • Know how to maintain masonry tools and equipment • Understand the process of preparing the sub-base • Understand different mix proportions/grades of concrete • Know the sequence of concrete pouring and placing • Know the different admixtures used in concreting • Understand the toweling process • Know how to use the relevant PPE 	<p>The knowledge required for Concrete Construction Worker is factual as it is specific and limited to the knowledge of standard practices for masonry work, use and maintenance of masonry tools along with some specialized tools, sub-base preparation, sequence of concrete pouring and placing, mixing proportion of concrete, admixtures, toweling process, etc.</p> <p>Therefore, their knowledge is applicable to their field of work only</p>	4.5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	<ul style="list-style-type: none"> • Inspect the work area before concreting • Surface preparation as per the standard practices • Mark reference level and flooring thickness • Check the type, grade and usability of cement before use • Fix the glass, aluminum or brass strip in cement mortar • Ensure panels are made as per specified size • Install construction joints and expansion joints • Ensure curing of the finished floor surface • Remove excess water from the top layer of wet concrete • Carry out Tremix flooring in the specified panel on RCC floors • Carry out curing of finished concrete 	<p>As indicated the skill set is required to inspect the work area before concreting, surface preparation as per the standard practices, mark reference level and flooring thickness, check the type, grade and usability of cement before use, fix the glass, aluminum or brass strip in cement mortar, ensure panels are made as per specified size, install construction joints and expansion joints, ensure curing of the finished floor surface, remove excess water from the top layer of wet concrete, carry out Tremix flooring in the specified panel on RCC floors, carry out curing of finished concrete, identify and report different types of defect on the concrete surface, carry out repair work under supervision, etc.</p>	4.5

	<ul style="list-style-type: none"> Identify and report different types of defects on the concrete surface Carry out repair work under supervision 		
Broad Learning Outcomes/Core Skill	<ul style="list-style-type: none"> Carry out IPS/ Tremix flooring Place, level and finish concrete in various structural elements including repairs Work effectively in a team to deliver desired results at the workplace Plan and organize work to meet expected outcomes Work according to personal health, safety and environmental protocols at construction site 	The Concrete Construction Worker is expected to carry out IPS/ Tremix flooring, place, level and finish concrete in various structural elements including repairs, work effectively in a team to deliver desired results at the workplace, plan and organize work to meet expected outcomes, work according to personal health, safety and environmental protocols at construction site	4.5
Responsibility	<p>The individual in this job role will be responsible for the below-mentioned activities:</p> <ul style="list-style-type: none"> Prepare for IPS/ Tremix flooring Check the line, level and alignment Check the materials used for IPS/ Tremix flooring in manual mixing Check the materials used for IPS/ Tremix flooring in machine mixing Carry out IPS flooring Carry out Tremix/ VDF flooring Prepare for pouring concrete Check the concreting materials Place and compact concrete on PCC and RCC structural elements 	A Concrete Construction Worker is responsible for preparing for IPS/ Tremix flooring, checking the line, level and alignment, checking the materials used for IPS/ Tremix flooring in manual mixing, checking the materials used for IPS/ Tremix flooring in machine mixing, carrying out IPS flooring and Tremix/ VDF flooring, preparing for pouring concrete, checking the concreting materials, placing and compacting concrete on PCC and RCC structural elements, screed and level wet concrete, finish and cure concrete, carrying out repair on hardened concrete surfaces.	4.5

	<ul style="list-style-type: none">• Screed and level wet concrete• Finish and cure concrete• Carry out concreting in precast segments• Carry out repair on hardened concrete surfaces• Interact and communicate in an effective manner• Support co-workers to execute the project requirements• Practice inclusion• Plan and prepare for work• Organize required resources as per work plan• Complete work as per the plan• Follow safety norms as defined by organization• Adopt healthy & safe work practices• Implement good housekeeping and environment protection process and activities• Follow infection control guidelines as per applicability		
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Annexure 2: Tools and Equipment (Lab Set-Up / Competition Area)

List of Tools and Equipment

Batch Size: 30 Candidates

SI N	Tool / Equipment Name	Specification	Quantity
1	Work pad (8,5 x 8,5 x 0,18 m)	Numbers	1 pcs per 2 Competitors
2	Concrete pump	Numbers	2 pcs per Skill
3	Circular Saw Table ;scie sur table	Numbers	1 pcs per 2 Competitors
4	Frami Xlife panel 0.90x1.20m	Numbers	12 pcs per 2 Competitors
5	Frami Xlife panel 0.60x1.20m	Numbers	8 pcs per 2 Competitors
6	Frami Xlife universal panel 0.75x1.50m	Numbers	5 pcs per 2 Competitors
7	Frami Xlife panel 0.75x1.20m	Numbers	4 pcs per 2 Competitors
8	Frami Xlife panel 0.90x1.50m	Numbers	12 pcs per 2 Competitors
9	Frami Xlife panel 0.60x1.50m	Numbers	8 pcs per 2 Competitors
10	Frami Xlife panel 0.45x1.20m	Numbers	6 pcs per 2 Competitors
11	Frami Xlife panel 0.45x1.50m	Numbers	6 pcs per 2 Competitors
12	Frami Xlife universal panel 0.75x1.20m	Numbers	5 pcs per 2 Competitors
13	Frami Xlife panel 0.75x1.50m	Numbers	4 pcs per 2 Competitors
14	Frami inside corner 1.20m 20cm	Numbers	6 pcs per 2 Competitors
15	Frami inside corner 1.50m 20cm	Numbers	6 pcs per 2 Competitors
16	Frami outside corner 1.20m	Numbers	5 pcs per 2 Competitors
17	Frami outside corner 1.50m	Numbers	5 pcs per 2 Competitors
18	Frami hinged inside corner I galv. 1.20m	Numbers	4 pcs per 2 Competitors
19	Frami hinged inside corner I galv. 1.50m	Numbers	4 pcs per 2 Competitors
20	Frami clamp	Numbers	187 pcs per 2 Competitors
21	Frami adjustable clamp	Numbers	50 pcs per 2 Competitors
22	Frami universal waling 1.25m	Numbers	18 pcs per 2 Competitors
23	Frami wedge clamp	Numbers	54 pcs per 2 Competitors
24	Frami universal fixing bolt 5-12cm	Numbers	73 pcs per 2 Competitors
25	Super plate 15.0	Numbers	193 pcs per 2 Competitors
26	Frami plywood support 18mm	Numbers	16 pcs per 2 Competitors
27	Frami clip	Numbers	32 pcs per 2 Competitors
28	Tie rod 15.0mm galvanised 1.00m	Numbers	12 pcs per 2 Competitors
29	Panel strut 340 IB	Numbers	11 pcs per 2 Competitors
30	Frami bracket 60	Numbers	15 pcs per 2 Competitors
31	Doka express anchor 16x125mm	Numbers	11 pcs per 2 Competitors
32	Doka multi-trip transport box 1.20x0.80m	Numbers	19 pcs per Skill
33	Frami pallet 1.20m	Numbers	39 pcs per Skill
34	Doka stacking pallet 1.55x0.85m	Numbers	8 pcs per Skill
35	Doka beam H20 eco N 2.45m	Numbers	7 pcs per 2 Competitors
36	Doka beam H20 eco N 2.90m	Numbers	4 pcs per 2 Competitors
37	Doka floor prop Eurex 20 top 250	Numbers	8 pcs per 2 Competitors
38	Removable folding tripod top	Numbers	4 pcs per 2 Competitors

39	Handrail clamp S	Numbers	6 pcs per 2 Competitors
40	Beam forming support 20	Numbers	8 pcs per 2 Competitors
41	Extension for beam forming support 60cm	Numbers	8 pcs per 2 Competitors
42	Hand operated electric bar-cutter	Numbers	2 pcs per Competitor
43	54V XR FLEX VOLT SDS PLUS HAMMER	Numbers	1 pcs per 2 Competitors
44	12V Cordless compact drill kit with a charger	Numbers	1 pcs per 2 Competitors
45	Hammer Drill Driver	Numbers	1 pcs per 2 Competitors
46	Jigsaw blade set	Numbers	1 pcs per 2 Competitors
47	Laser Distance Measurer, Bluetooth	Numbers	3 pcs per Skill
48	HGM Folding Rulers (2m)	Numbers	4 pcs per 2 Competitors
49	Long Measuring Tape (50m)	Numbers	3 pcs per Skill
50	Standard bit for wood (20mm)	Numbers	1 pcs per 2 Competitors
51	4 to 12mm self bit	Numbers	1 pcs per 2 Competitors
52	Extendable Spirit Level (215-376cm)	Numbers	1 pcs per 2 Competitors
53	Unextendable Stepladder (2.8m)	Numbers	1 pcs per 2 Competitors
54	Unextendable Stepladder (1,4 m)	Numbers	2 pcs per 2 Competitors
55	Type 96/196-2 Electronic IP 65 (183 cm)	Numbers	1 pcs per 2 Competitors
56	Folding sawhorse	Numbers	1 pcs per 2 Competitors
57	Cordless Jigsaw	Numbers	1 pcs per 2 Competitors
58	Tie rod 15.0mm galvanised 1.00m	Numbers	18 pcs per Skill
59	Frami clip	Numbers	18 pcs per Skill
60	Frami plywood support 18mm	Numbers	4 pcs per Skill
61	Super plate 15.0	Numbers	77 pcs per Skill
62	Frami universal fixing bolt 5-12cm	Numbers	17 pcs per Skill
63	Frami wedge clamp	Numbers	16 pcs per Skill
64	Frami universal waling 1.25m	Numbers	16 pcs per Skill
65	Frami adjustable clamp	Numbers	50 pcs per Skill
66	Frami clamp	Numbers	18 pcs per Skill
67	Type 96/196-2 Electronic IP 65 (183 cm)	Numbers	5 pcs per Skill
68	Unextendable Stepladder (2.8m)	Numbers	1 pcs per Skill
69	Unextendable Stepladder (1,4 m)	Numbers	1 pcs per Skill
70	Extendable Spirit Level (215-376cm)	Numbers	5 pcs per Skill
71	32 piece screwdriving set	Numbers	2 pcs per 2 Competitors
72	Frami universal walling 1.25m	Numbers	18 pcs per 2 Competitors
73	Lever Clamp 300Mm	Numbers	4 pcs per 2 Competitors
74	Hydraulic trolley/ transpalette	Numbers	2 pcs per Skill
75	BM Measuring tape (5 m)	Numbers	3 pcs per 2 Competitors
76	Chalk line SG Tracing line	Numbers	24 pcs per Skill
77	9.0 AH battery for SDS+ cordless hammer	Numbers	1 pcs per 2 Competitors
78	Charger for 9.0 batteries	Numbers	1 pcs per 2 Competitors
79	BM Measuring tape (8 m, 25 mm)	Numbers	3 pcs per 2 Competitors
80	Digital electronic angle finder	Numbers	15 pcs per Skill
81	Chalk Line Powder (Blue)	Numbers	1 pcs per 2 Competitors

82	Chalk Line Powder (red)	Numbers	1 pcs per 2 Competitors
83	Blade for circular saw table	Numbers	1 pcs per 2 Competitors
84	Rotation laser	Numbers	4 pcs per Skill
85	Levelling rod	Numbers	4 pcs per Skill
86	Elevator tripod	Numbers	4 pcs per Skill
87	Optical level	Numbers	1 pcs per Skill
88	Doka skeleton transport box 1.70x0.80m	Numbers	3 pcs per Skill
89	P799BY marking/distancing adhesive - black/yellow - roll of 48 mm x 50 m	Numbers	40 pcs per Skill
90	Concrete truck with driver. Day C2	Numbers	15 m3 per Skill
91	Vacuum cleaner dust skill 46	Numbers	2 pcs per 2 Competitors
92	Tie rod 15.0mm galvanised 0.75m	Numbers	48 pcs per 2 Competitors
93	Tie rod 15.0mm galvanised 0.75m	Numbers	32 pcs per Skill
94	Frami universal walling 1.25m	Numbers	17 per Skill
95	Doka beam H20 eco N 3.30m	Numbers	2 pcs per 2 Competitors
96	Frami pallet 1.50m	Numbers	39 pcs per Skill
97	Doka floor prop Eurex 20 top 250	Numbers	2 per Skill
98	Doka stacking pallet 1.20x0.80m	Numbers	10 pcs per Skill
99	Removable folding tripod top	Numbers	2 per Skill
100	4 way head H20	Numbers	2 pcs per Skill
101	Strut head EB	Numbers	3 pcs per Skill
102	Strut head EB	Numbers	22 pcs per 2 Competitors
103	Supporting head H20 DF	Numbers	2 pcs per Skill
104	Supporting head H20 DF	Numbers	4 pcs per 2 Competitors
105	Frami universal walling 1.25m	Numbers	16 pcs per Skill
106	Plastic tube 200mm (1.0 m long)	Numbers	1 pcs per 2 Competitors
107	concrete vibrator	Numbers	1 pcs per 2 Competitors
108	Doka formwork sheet	Numbers	8 pcs per Skill
109	Dokamatic adapter XP	Numbers	12 pcs per Skill
110	Protective grating XP 2.70x1.20m	Numbers	12 pcs per 2 Competitors
111	Table Dokamatic	Numbers	6 pcs per Skill
112	ped dokamatic	Numbers	36 pcs per 2 Competitors
113	Insertion adapter XP	Numbers	8 pcs per Skill
114	Handrail post XP	Numbers	24 pcs per 2 Competitors
115	table circular saw	Numbers	1 pcs per 2 Competitors
116	bolt with nut washer	Numbers	24 pcs per 2 Competitors
117	Doka stacking pallet	Numbers	1 pcs per 2 Competitors
118	Doka multi-trip transport box 1.20x0.80m	Numbers	2 pcs per 2 Competitors
119	Super plate 15.0	Numbers	16 pcs per 2 Competitors
120	Frami tie-holder bracket	Numbers	16 pcs per 2 Competitors
121	Tie rod 15.0mm galvanised 1.50m	Numbers	8 pcs per 2 Competitors
122	Spring cotter 5mm	Numbers	12 pcs per 2 Competitors
123	Connecting pin 10cm	Numbers	12 pcs per 2 Competitors

124	Doka formwork sheet	Numbers	6 pcs per 2 Competitors
125	Fork Extensions for Forklift Trucks	Numbers	1 pcs per Skill
126	grinder 230mm	Numbers	2 pcs per Skill
127	TORX MALE KEY	Numbers	1 pcs per Skill
128	Guide rail clamps	Numbers	1 pcs per 2 Competitors
129	Guide rail for plunge saw 1.5m	Numbers	3 pcs per 2 Competitors
130	Guide rail connection	Numbers	1 pcs per Skill
131	Roller base for table saws	Numbers	1 pcs per 2 Competitors
132	Airlock connector kit	Numbers	1 pcs per 2 Competitors
133	telehandlers with jibs crane	Numbers	1 pcs per Skill
134	forklift truck 2.5t	Numbers	1 pcs per Skill
135	pallet jack	Numbers	2 pcs per Skill
136	Disc cutters	Numbers	1 pcs per Skill
137	concrete vibrator 1.20 m	Numbers	1 pcs per 2 Competitors
138	concrete vibrator 3m	Numbers	1 pcs per 2 Competitors
139	formwork scraper	Numbers	1 pcs per 2 Competitors
140	Aluminium shovel	Numbers	1 pcs per 2 Competitors
141	straight handle formwork scraper	Numbers	1 pcs per Skill
142	round gooseneck shovel	Numbers	1 pcs per 2 Competitors
143	Wheelbarrow 90 L	Numbers	1 pcs per 2 Competitors
144	Heeled crowbar	Numbers	2 pcs per Skill
145	concrete pan 500l	Numbers	1 pcs per Skill
146	Mortar trough	Numbers	2 pcs per Skill
147	Garden hose kit	Numbers	1 pcs per Skill
148	builders bucket	Numbers	5 pcs per 2 Competitors
149	heavy duty flexi tub bucket	Numbers	2 pcs per 2 Competitors
150	Protective film 5/1000	Numbers	1 pcs per 2 Competitors
151	Rubber waste bin 75L	Numbers	1 pcs per 2 Competitors
152	Bolt cutters 10 mm	Numbers	1 pcs per Skill
153	coco broom 60	Numbers	1 pcs per Skill
154	Coco broom	Numbers	1 pcs per 2 Competitors
155	PVC broom	Numbers	4 pcs per Skill
156	Foam squeegee	Numbers	1 pcs per 2 Competitors
157	PVC broom handle 140cm	Numbers	1 pcs per 2 Competitors
158	Dustpan	Numbers	4 pcs per Skill
159	Broom handle 1,2	Numbers	1 pcs per 2 Competitors
160	4-strand chain sling	Numbers	1 pcs per Skill
161	Synthetic Web Slings	Numbers	8 pcs per Skill
162	Straight shackle	Numbers	4 pcs per Skill
163	Construction site barrier	Numbers	16 pcs per Skill
164	Aluminium ruler	Numbers	1 pcs per 2 Competitors
165	Formwork positioners 200mm	Numbers	3 pcs per Skill
166	Industrial sprayer	Numbers	1 pcs per 2 Competitors

167	Mane brush - polypropylene fibre	Numbers	4 pcs per Skill
168	Padlock 60mm	Numbers	2 pcs per Skill
169	Adapter extension lead with block of 4 flap sockets,	Numbers	1 pcs per 2 Competitors
170	Timber planks (50 x 200 x 4000mm)	Numbers	40 pcs per 2 Competitors
171	Timber planks (100 x 100 x 4000 mm)	Numbers	10 pcs per 2 Competitors
172	Timber boards (25 x 100 x 4000mm)	Numbers	10 pcs per 2 Competitors
173	Industrial wash basin	Numbers	2 per Skill
174	Anti-cut gloves (size M)	Numbers	1 pcs per Competitor
175	disc for concrete	Numbers	2 pcs per Skill
176	Cut-off wheel	Numbers	3 pcs per Skill
177	cut-of wheel	Numbers	4 pcs per Skill
178	shovel handle 1,30m	Numbers	1 pcs per 2 Competitors
179	Translucent polyethylene film under paving	Numbers	2 pcs per Skill
180	Adhesive Tape (Red/white 50 mm)	Numbers	10 pcs per Skill
181	17 micron stretch film	Numbers	6 pcs per Skill
182	Steel reinforcing bar 8 mm	Numbers	4 pcs per 2 Competitors
183	Steel reinforcing bar 10 mm	Numbers	2 pcs per 2 Competitors
184	steel reinforcing concrete bar 14	Numbers	4 pcs per 2 Competitors
185	Fork wedges	Numbers	10 pcs per Skill
186	White cotton cloths	Numbers	2 pcs per Skill
187	Formwork release oil 2 L	Numbers	1 pcs per 2 Competitors
188	Formwork release oil 20 L	Numbers	1 pcs per Skill
189	Rebar tie wire	Numbers	3 pcs per Skill
190	Worksite signalling tape	Numbers	10 pcs per Skill
191	Formwork positioners	Numbers	3 pcs per Skill
192	Torx screw 4*30	Numbers	1 pcs per 2 Competitors
193	Torx screw 4*40	Numbers	1 pcs per 2 Competitors
194	Torx screw 4*50	Numbers	1 pcs per 2 Competitors
195	Torx screw 4*70	Numbers	1 pcs per 2 Competitors
196	Torx screw 5*90	Numbers	1 pcs per 2 Competitors
197	Torx screw 6*120	Numbers	1 pcs per 2 Competitors
198	Nail 2,2*40	Numbers	1 pcs per Skill
199	Nail 3,5 *70	Numbers	1 pcs per 2 Competitors
200	Nail 2,4*50	Numbers	1 pcs per 2 Competitors
201	Lag screw	Numbers	1 pcs per 2 Competitors
202	White wadding spool	Numbers	2 pcs per Skill
203	Tiling sponge	Numbers	6 pcs per Skill
204	Reinforced bin liners	Numbers	3 pcs per Skill
205	Steel chain	Numbers	1 pcs per Skill
206	Ear plugs with cord	Numbers	18 pcs per Skill
207	Plastic chamfer	Numbers	5 pcs per 2 Competitors
208	Marine Plywood 6.5 mm	Numbers	4 pcs per Skill

209	Marine plywood 18 mm	Numbers	5 pcs per 2 Competitors
210	CIS Laptop - Type 1	Numbers	2 pcs per Skill
211	TV Stand to mount	Numbers	1 pcs per Skill
212	Network filter with, at least, 5 sockets	Numbers	3 pcs per Skill
213	Acoustic system with 2 wireless microphones	Numbers	1 pcs per Skill
214	Screen and projector	Numbers	1 pcs per Skill
215	CIS Laptop - Type 1	Numbers	1 pcs per Skill
216	CIS Laptop - Type 1	Numbers	1 pcs per Skill
217	Color Laser Printer + Scan (A3/A4)	Numbers	1 pcs per Skill
218	Mousepad	Numbers	1 pcs per Skill
219	Network filter with, at least, 5 sockets	Numbers	3 pcs per Skill
220	Screen and projector	Numbers	1 pcs per Skill
221	TV Stand to mount	Numbers	1 pcs per Skill
222	Network filter with, at least, 5 sockets	Numbers	1 pcs per Competitor
223	Network filter with, at least, 5 sockets	Numbers	10 pcs per Skill
224	Tablet for marking	Numbers	10 pcs per Skill
225	AutoCAD	Numbers	2 pcs per Skill
226	Windows OS (11)	Numbers	4 per Skill
227	Windows OS (11)	Numbers	4 per Skill
228	Chair -Type1 (without wheels)	Numbers	2 pcs per Skill
229	Chair -Type1 (without wheels)	Numbers	1 pcs per Expert
230	Work bench	Numbers	1 pcs per 2 Experts
231	Chair -Type1 (without wheels)	Numbers	3 pcs per Expert
232	Work bench	Numbers	1 pcs per Expert
233	Refrigerator	Numbers	1 pcs per Skill
234	Work bench	Numbers	3 pcs per Skill
235	Locker	Numbers	1 pcs per Skill
236	Chair -Type1 (without wheels)	Numbers	3 pcs per Skill
237	Water cooler	Numbers	1 pcs per Skill
238	Sink	Numbers	2 pcs per Skill
239	Industrial wash basin	Numbers	2 per Skill
240	Work bench	Numbers	3 per Skill
241	Fire extinguisher (Powder)	Numbers	1 pcs per Skill
242	Fire extinguisher (Powder)	Numbers	1 pcs per Skill
243	Fire extinguisher (Powder)	Numbers	3 pcs per Skill
244	HSE First Aid Kit	Numbers	1 pcs per Skill
245	Anti-cut gloves (size M)	Numbers	3 pcs per Competitor
246	Heavy Duty Gloves (Rigger gloves)	Numbers	1 pcs per 2 Competitors
247	Eye Wash Bottle	Numbers	1 pcs per Skill
248	Protective Glasses (plastic, transparent) - Skill 41	Numbers	2 pcs per Competitor
249	Dust mask	Numbers	5 pcs per Competitor
250	Earplugs	Numbers	5 pcs per Competitor
251	Hand Sanitizer	Numbers	1 pcs per 2 Competitors

252	Anti-cut gloves (size L)	Numbers	1 pcs per Competitor
253	HSE First Aid Kit	Numbers	1 pcs per Skill
254	Notebook (A5)	Numbers	1 pcs per Competitor
255	Pen (Blue)	Numbers	3 pcs per 2 Competitors
256	Set of markers	Numbers	2 pcs per Skill
257	Hole Punch (2 hole)	Numbers	1 pcs per Skill
258	File for A4 paper format	Numbers	2 pcs per Expert
259	Highlighter Set	Numbers	2 pcs per Skill
260	Paper clips (100 pieces)	Numbers	2 pcs per Skill
261	Stapler (20 mm)	Numbers	2 pcs per Skill
262	Staple remover	Numbers	2 pcs per Skill
263	stapler 6in1 skill 46	Numbers	2 pcs per Skill
264	Scissors SKILL 12	Numbers	2 pcs per Skill
265	Steel ruler (300 mm)	Numbers	3 pcs per Skill
266	Rubber Bands	Numbers	1 pcs per Skill
267	Notes (3x3 inch, four colors)	Numbers	2 pcs per Skill
268	Flip Chart	Numbers	1 pcs per Skill
269	Foldback Clips	Numbers	2 pcs per Skill
270	Paper for print A4	Numbers	2 pcs per Skill
271	Blu Tack	Numbers	2 pcs per Skill
272	Wet Wipes boxes	Numbers	2 pcs per Skill
273	Box cutters	Numbers	2 pcs per Skill
274	Clipboard	Numbers	1 per Expert

NOTE: For regular updates on tool and equipment list (Infrastructure List) for Skill Competition for “Wall and Floor Tiling”, kindly refer to the WorldSkills Competition Website: <https://il.worldskills.org/#/events/579/lists/1155/public>

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Training Kit (Trainer Guide, Presentations)
2. Whiteboard/ Blackboard
3. Marker
4. Projector
5. Working Model

Annexure 3: Industry Validations Summary

Provide the summary information of all the industry validations in the table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)

NA	NA	NA	NA	NA	NA	NA	NA
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Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

Content availability for previous versions of qualifications:

☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available:

Annexure 5: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Work Organization, Management and Communication	Explain health and safety legislation, obligations, and documentation	30	70		
	check and ensure the availability of appropriate and usable Personal Protective Equipment (PPE) at the workplace				
	use the appropriate PPE according to the nature of work and ensure other personnel also do the same				
	follow and promote the appropriate measures to ensure hygiene in the workplace, e.g.regular cleaning and sanitization				
	follow the applicable emergency procedures and ensure the personnel also do the same				
	Learn precautions for the safe use of power and cordless tools				
	Apply standards and laws relating to security, safety, and hygiene in plastering and drywall systems				
	establish methods for optimal and economically organized construction site. regarding construction plan and equipment, organization and procedures, material management, staffing and timelines				
	determine the correct calculations and estimates by using principles and methods				
	store plasterboards and related products safely and securely				
	be proactive in own continuous professional development in order to keep abreast of methods of working in the construction industry and changing technologies, for example acoustics, sustainability and environmental impact				
	Work effectively as part of teams				
	Work effectively with other trades				
	Establish and maintain high quality standards and working processes				
	identify problems promptly and manage their resolution				
	select, use and store all materials safely				
	plan work areas to maximize efficiency and maintain the discipline of regular tidying				
	principles and methods for determine the correct calculations and estimates				
	understand technical terminology and symbols				
	visualize and translate customer wishes making recommendations which meet/improve their design and budgetary requirements where qualified to do so				
	Produce a cost and time estimate for customers				
	introduce related trades to support customer requirements				
	work effectively in a team to facilitate efficiency/productivity/quality and cost control				
	recognize the needs of architects and related trades				
	explain the importance of swiftly resolving misunderstandings and conflicting demands				
	Total Marks	30	70		
Interpretation of Drawings	Prepare site measurement drawings	30	70		
	Accurately interpret all plans, elevations, sections and enlarged details				
	Produce basic outline drawings (hand and CAD) including elevations, plans, and sections to full size				

	produce accurate complex drawings on wood to make figure on the wall/floor				
	Identify drawing errors or items that require clarification				
	Determine and check quantities of materials required				
	Calculate a cost and price for the work				
	Identify horizontal and vertical key dimensions and all angles				
	Identify curved work and mortar joint finishes				
	Interpret all project features and their required construction methods				
	Establish any features that need special equipment or templates and source these				
	Recognize specified bonding patterns and obey bonding rules during construction				
	Provide advice and guidance to other professionals such as architects and quantity surveyors				
	Keep essential notes on each installation process				
	Explain complex specialist and technical information about installations to clients and other professionals				
	Apply mathematic geometry principles to the calculation of angles, areas, perimeters, curves, arcs, volumes, ratios, etc.				
	Prepare the materials requirements, taking into account increased requirements due to compression, wastage, breakage, etc.				
	Calculate formwork surfaces and materials requirements				
	Calculate formwork surfaces and materials requirements for face concrete formwork				
	Interpret, analyse, and work with construction plans (e.g. design plans, formwork plans, reinforcement plans, detail drawings, etc.) and material and parts lists				
	Total Marks	30	70		
Setting out and Measurement	Check measurements of the wall/floor conform to the drawing specifications	30	70		
	Produce setting out for templates				
	Visualize and think through projects, identifying potential challenges early and taking the necessary preventative action				
	Set out the locations, starting points and lines of projects according to plans and specifications				
	Set out highly technical designs including brick-on-end, brick-on edge, raked/inclined, curved projecting, recessing brickwork, archways, corbelling, decorative bonding, and battered walling				
	Accurately interpret the dimensions from drawings and ensure the design is set out within a given tolerance				
	Check all horizontal and vertical angles				
	Accurately interpret dimensions from drawings and ensure designs are set out within a given tolerances				
	Produce any templates/building aids that may be helpful when constructing				
	Set out datum points of reference for projects				
	Carry out setting out work using the necessary surveying equipment (pocket rule, tape measure, distance meter, set square, level, etc.)				
	Measure predetermined structures, joints, and materials for the subsequent face concrete surfaces (anchor holes, shuttering frames, board inserts, distribution and alignment of formwork boards, etc.)				

	Create horizontal levels and measure heights using spirit levels, water level gauges, and optical devices				
	Total Marks	30	70		
Construction of Test Project (Concrete Construction Works)	Work manually with materials such as wood, metal, and plastic (for separating, reshaping, connecting)	30	70		
	Measure, lay out and cut wood and work with it manually and using machinery				
	Make simple trestles, working platforms plus auxiliary equipment, set up protective nets and use them in compliance with the relevant regulations				
	Make and put together every type of formwork				
	Make supports and reinforcements (concrete pressure)				
	Make face concrete formwork				
	Make slits, apertures, openings, and recesses				
	Move anchors as directed				
	Make various joints in combination with the appropriate joint sealants (profiles, sealing strips, expansion joint tapes)				
	Cut to length, bend, interweave, lay, and anchor structural steel according to bending and reinforcement diagrams and in compliance with reinforcement directives (specifically those concerning bending, radius of curvature, end hooks, brackets, distributors, separators, joints, and connection reinforcements)				
	Prevent the following problems through correct construction				
	Use scaffolding appropriately and safely and apply health and safety requirements and legislation				
	Make simple trestles, working platforms plus auxiliary equipment, set up protective nets and use them in compliance with the relevant regulations				
	Cut to length, bend, interweave, lay, and anchor structural steel according to bending and reinforcement diagrams and in compliance with reinforcement directives (specifically those concerning bending, radius of curvature, end hooks, brackets, distributors, separators, joints, and connection reinforcements)				
	Prevent the build-up of rust stains on vertical components and of traces of rust caused by reinforcement residues being left on the undersides of horizontal components				
	Use scaffolding appropriately and safely and apply health and safety requirements and legislation				
	Produce unreinforced and reinforced concrete (mix and transport formula concrete = sitemixed concrete)				
	Order ready-mixed concrete for the site and transport it using concrete pumps, crane buckets, or conveyors				
	Apply means of separation before concreting, depending on the formwork lining, using high pressure sprays, brushes, cloths or mechanically				
	Apply concrete in prepared formwork				
	Compress concrete using various compressors				
	Process concrete surfaces by smoothing/removing/levelling, using the tools required to do this				

	Carry out after-treatment of concrete using covers, spray, humidification, use of aftertreatment aids, or by leaving fresh concrete in the formwork beyond the stripping times	30	70		
	Prevent incorrect application and compression of concrete				
	Strip formwork using tools (e.g. formwork bars)				
	Clean formwork using e.g. water, manual formwork cleaners				
	Use hazardous cleaners correctly and safely				
	Care for and maintain system formwork and replace damaged sections				
	Sort and store all required formwork parts ready for transportation				
	Total Marks				
Quality Check and Handover	Inspect equipment, structures, and/or material to identify the nature and causes of errors, defects, or problems	30	70		
	Think critically by using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems				
	Identify actual and potential problems				
	Analyse information and evaluate options to choose and use the best solution				
	Evaluate solutions and optimize results				
	The need for all work to be presented to meet customer and related trades needs and expectations				
	The importance of joint finishing in line with the specifications provided				
	The different techniques of applying different joint finishes				
	understand the process of marking and assessment criteria of respective trade				
	respond to the queries on the queries being raised by them				
	Make and follow through decision				
	Apply appropriate techniques according to buildings' history and fabrication, whilst maintaining their integrity for both internal and external surfaces				
	Leave work areas in a suitable condition for inspection and subsequent work				
	Report positive and negative variances in work processes and results, together with their implications				
	Organize any waste material so that it can be disposed of or recycled efficiently				
	Total Marks				
Grand Total		150	350		

Annexure 6: Assessment Strategy

Assessment Strategy

- For assessment Experts use specific measurement points which are marked on the drawings. Measurement tools are used to take measurements at these points. Each module/task/section is completed on the assigned day so that progressive marking can take place. The marking of modules will start when all Competitors have finished their module. To ensure transparency, each Competitor is provided the same Mark Summary Form as used by the Experts. A master set of marking tools provided by the Competition Organizer is available during familiarization. All measurements are taken using the master set of measuring equipment. As per the Competition Rules a majority vote (50% +1) is needed to:
- Change the Marking Scheme (within limits specified in the Technical Description);
- Change competition sequence or content;
- Agree on a solution for disputes concerning marks awarded etc.
- The assessment information is not provided to the marking team until all Competitors have completed the work that is assessed.
- The panel of Experts will assist the Skill Competition Manager and the Chief Expert to select the Experts for judgement marking.
- The selected Experts possess the suitable industry and competition experience to fulfil the role. • Four Experts are used in the judgement marking team
- 0-3 Scale:
 - 0: performance below industry standard
 - 1: performance meets industry standard
 - 2: performance meets and, in specific respects, exceeds industry standard
 - 3: performance wholly exceeds industry standard and is judged as excellent

For more updates, kindly visit: <https://worldskills.org>

Annexure 7: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
CSDCI	Construction Skill Development Council of India
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
WSC	World Skills Competition

Glossary

Term	Description
National Occupational Standards (NOS)	NOS defines the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.

Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf
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