



QUALIFICATION FILE

Khalasi (Assistant Rigger)

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: 3

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

Submitting Body Contact Details:

Name: Neha Sharma Dave
Position in the Organization: Head - Standards & Research
Address: Same as above
Tel number(s): 0124-4513915-18 Ext-22
E-mail address: neha@cstdcindia.org

Table of Contents

Section 1: Basic Details.....	3
Section 2: Module Summary.....	6
NOS/s of Qualifications	6
Mandatory NOS/s:	6
Assessment - Minimum Qualifying Percentage	8
Section 3: Training Related	8
Section 4: Assessment Related	8
Section 5: Evidence of the need for the Qualification.....	9
Section 6: Annexure & Supporting Documents Check List.....	9
Annexure 1: Evidence of Level	13
Annexure 2: Tools and Equipment (Lab Set-Up).....	17
Annexure 3: Industry Validations Summary.....	20
Annexure 4: Training & Employment Details	24
Annexure 5: Detailed Assessment Criteria.....	25
Annexure 6: Assessment Strategy.....	37
Annexure 7: Acronym and Glossary.....	38
Annexure 8: Occupational Map	39
Annexure 9: Career Progression	40

Section 1: Basic Details

1.	Qualification Name	Khalasi (Assistant Rigger)		
2.	Sector/s	Construction		
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: (2019/CON/CSDCI/3294, v2.0)	Qualification Name of existing/previous version: Khalasi (Assistant Rigger)	
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA		
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-03-CO-00810-2023-V2-CSDCI	6. NCrf/NSQF Level: 3	
7.	Award (Certificate/Diploma/Advanced Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate		
8.	Brief Description of the Qualification	A Khalasi (Assistant Rigger) is responsible for shifting and preparing the surface of heavy structural steel/ Reinforced Cement Concrete (RCC) precast units, laying concrete pump lines, assisting in the erection of staging for heavy RCC structures, and pile foundation by using appropriate rigging gear, hand tools at construction site. The individual works under supervision.		
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience:		
		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)
		1.	Grade 10	

		2. 8th grade pass	2-year relevant experience			
		3. 5th grade pass	5-year relevant experience			
		4. Previous relevant Qualification of NSQF Level 2	3-year relevant experience			
		5. Previous relevant qualification of NSQF Level 2.5	1.5-year relevant experience			
	b. Age: As per Govt Norms					
10. Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	12	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					
	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
	Classroom (offline)	120	180	60		360
	Online					
(Refer Blended Learning Annexure for details)						
14. Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7215.0100					

15.	Progression path after attaining the qualification <i>(Please show Professional and Academic progression)</i>	Rigger Precast Erection
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi
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	To encourage women to participate in Rigging job roles, it is important to provide education, mentorship, and networking opportunities, as well as training and development programs. Flexible work arrangements and promoting successful women in Rigging can also inspire and encourage women to pursue careers in this field. Creating a culture of inclusion and diversity can help women feel welcome and valued in Rigging job roles, through policies and practices that support work-life balance, equal pay and promotion opportunities, and a safe and respectful workplace.
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/N9001
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input checked="" type="checkbox"/> Yes <input 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: 31-08-2023	24. Validity Duration: 3 Years
		25. Next Review Date: 31-08-2026

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 Training Man.-Mandatory 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					Weightage (%) (if applicable)
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	
1.	Shift RCC precast/ structural steel units at construction sites	CON/N0701 & v3.0	Core	3.0	2	15	15	30	-	60	30	60	-	10	100	20
2.	Prepare the surface of RCC precast units or structural steel units	CON/N0702 & v3.0	Core	3.0	2	20	40	-	-	60	30	60	-	10	100	20
3.	Lay and dismantle concrete pump-line	CON/N0703 & v3.0	Core	3.0	2	15	15	30	-	60	30	60	-	10	100	15
4.	Assist in carrying out staging for heavy RCC work	CON/N0704 & v3.0	Core	3.0	1	15	15	-	-	30	30	60	-	10	100	15
5.	Assist in in-situ RCC piling work	CON/N0705 & v3.0	Core	3.0	2	15	45	-	-	60	30	60	-	10	100	15

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)
6.	Work effectively in a team to deliver desired results at the workplace	CON/N8001 & v12.0	Non-Core	4.0	1	05	25	-	-	30	30	70	-	-	100	5
7.	Work according to personal health, safety and environment protocols at construction site	CON/N9001 & v10.0	Non-Core	4.0	1	05	25	-	-	30	30	70	-	-	100	5
8.	Employability Skills	DGT/VSQ/N01 01 & v1.0	Non-Core	2.0	1	30	-	-	-	30	20	30	-	-	50	5
Duration (in Hours) / Total Marks						12	120	180	60	360	230	470	-	50	750	

Assessment - Minimum Qualifying Percentage

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

Minimum Pass Percentage – Aggregate at qualification level: 50 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: 50 % (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 Civil/Mechanical/Electrical with 1 Year of Relevant experience in Rigging Diploma in Civil/Mechanical/Electrical with 2 Years of Relevant experience in Rigging ITI in Civil/Mechanical/Electrical with 4 Years of Relevant experience in Rigging General BA/BSc. / EX-Army/ 12 th in Civil/Mechanical/Electrical with 4 Years of Relevant experience in Rigging
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Graduate (Civil or Mechanical Engineering) with 8 years of Relevant experience in site execution works including Rigging Diploma in (Civil Engineering/ Mechanical Engineering/ Manufacturing/ Mathematics/ Physics degree) with 10 years of Relevant experience in site execution works including Rigging ITI in (Civil/ Mechanical/Electrical) with 13 years of Relevant experience in site execution works including Rigging
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 Civil/Mechanical/Electrical with 2 Year of Relevant experience in Rigging Diploma in Civil/Mechanical/Electrical with 4 Year of Relevant experience in Rigging ITI in Civil/Mechanical/Electrical with 5 Year of Relevant experience in Rigging
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B. Tech in Civil/Mechanical/Electrical with 2 Years of Relevant experience Diploma in Civil/Mechanical/Electrical Electrical with 4 Years of Relevant experience ITI in Civil/Mechanical/Electrical with 5 Years of Relevant experience
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma in (Civil Engineering/ Mechanical Engineering/ Manufacturing/ Mathematics/ Physics degree) with 10 years of Relevant experience in site execution Works including Rigging Graduate (Civil Engineering/ Mechanical Engineering with 8 years of Relevant experience in site execution Works including Rigging ITI in Civil/ Mechanical/Electrical with 13 years of Relevant experience in site execution Works including Rigging General BA/B.Sc/Ex-Army/12th with 13 years of Relevant experience in site execution Works including Rigging
4.	Assessment Mode (Specify the assessment mode)	Online and 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): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): No
3.	Government /Industry initiatives/ requirement (Yes/No): No
4.	Number of Industry validation provided: 18
5.	Estimated nos. of persons to be trained and employed: 3000 & 2250
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: <i>Approved</i> 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 <i>(Mandatory)</i>	Yes
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Yes
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Yes
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Yes
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is “Blended Learning”)</i>	No
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	Yes
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	Yes
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Yes
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	Yes
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	Yes
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	Yes
12.	Any other document you wish to submit:	No

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 shifting RCC precast/ structural steel units at construction sites ● Process of preparation of the surface of RCC precast units or structural steel units ● Process of laying and dismantling concrete pump line ● Process of staging for heavy RCC work ● Process of in-situ RCC piling work ● Process of working effectively in a team to deliver desired results at the workplace ● Process of working according to personal health, safety and environment protocols at the construction site 	<p>As detailed, the entire process followed by Khalasi (Assistant Rigger) is shifting RCC precast/ structural steel units at construction sites, preparation of the surface of RCC precast units or structural steel units, laying and dismantling concrete pump lines, staging for heavy RCC work, in-situ RCC piling work, working effectively in a team to deliver desired results at the workplace, working according to personal health, safety and environment protocols at the construction site.</p> <p>As the work is routine and is repeated multiple times, the work becomes predictable.</p> <p>As the Khalasi (Assistant Rigger) 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>	<p>3.0</p>
Professional and Technical Skills/ Expertise/ Professional Knowledge	<ul style="list-style-type: none"> ● Understand the standard procedure for construction rigging work ● Know the applicable safety regulations concerning construction rigging ● Know the selection and use of rigging gears and tools ● Understand the procedures for attaching slings to load directly or using lifting gears ● Understand the safe posture of load-lifting equipment while lifting the load 	<p>The knowledge required for Khalasi (Assistant Rigger) is factual as it is specific and limited to the knowledge of the standard procedure for construction rigging work, applicable safety regulations concerning construction rigging, selection and use of rigging gears and tools, procedures for attaching slings to load directly or using lifting gears, safe posture of load lifting equipment while lifting load, different abrasives used in sandblasting and their physical properties, procedure for carrying out sandblasting and wire brushing, appropriate temperature for the application of epoxy bonding agent, standard procedure of laying and</p>	<p>3.0</p>

	<ul style="list-style-type: none"> ● Know how to procedure of handling sandblasting gun ● Know the different abrasives used in sandblasting and their physical properties ● Understand the procedure for carrying out sandblasting and wire brushing ● Know the appropriate temperature for the application of the epoxy bonding agent ● Know the standard procedure of laying and aligning concrete pump line ● Know how to clean concrete from pipe segments without damaging the same ● Know how to use clamps, safety chains, wire strops, anchor brackets, etc. to secure the concrete pipeline ● Understand the standard procedure of lifting heavy components using rigging tools and tackles ● Understand the standard procedure of shifting, storing and stacking staging materials at the worksite ● Know the tools used for piling work ● Understand the use of lifting tools and equipment in borehole piling work ● Know how to use bentonite in piling work and its physical properties 	<p>aligning concrete pump line, clean concrete from pipe segments without damaging the same, use clamps, safety chains, wire strops, anchor brackets, etc. to secure the concrete pipeline, standard procedure of lifting heavy components using rigging tools and tackles, standard procedure of shifting, storing and stacking staging materials at the worksite, the tools used for piling work, use of lifting tools and equipment in bore hole piling work, and use of bentonite in piling work and its physical properties.</p> <p>Therefore, their knowledge applies to their field of work only.</p>	
<p>Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill</p>	<ul style="list-style-type: none"> ● Identify the faults requiring expert assistance and coordinate with the supervisor to resolve them 	<p>As indicated the skill set is required to identify the faults requiring expert assistance and coordinate with the supervisor to resolve them, identify and remove obstructions from the lifting equipment operation area,</p>	<p>3.0</p>

	<ul style="list-style-type: none">● Identify and remove obstructions from the lifting equipment operation area, and report conditions that are unsafe for material lifting and shifting● Select the appropriate hand tools, rigging gear and Personal Protection Equipment (PPE) for lifting and shifting heavy material at construction sites● Check the suitability of the loading and unloading area to ensure the safe loading and unloading of heavy loads● Check the assist in loading precast or structural steel units in the transporting vehicle● Check the surroundings to ensure safe conditions for sandblasting and assist in erecting appropriate protection● Select and shift clamps and required hand tools to the work location● Carry out ramming of external pipes to check continuity of flow of concrete during concreting work● Select appropriate staging components● Check for the compaction/ rigidity and level of the scaffolding's base● Install supports at the appropriate locations using suitable formwork component	<p>and report conditions that are unsafe for material lifting and shifting, select the appropriate hand tools, rigging gear and Personal Protection Equipment (PPE) for lifting and shifting heavy material at construction sites, check the suitability of loading and unloading area to ensure safe loading and unloading of heavy loads, check the assist in loading precast or structural steel units in the transporting vehicle, check the surroundings to ensure safe conditions for sandblasting and assist in erecting appropriate protection, select and shift clamps and required hand tools to the work location, carry out ramming of external pipes to check continuity of flow of concrete during concreting work, select appropriate staging components, check for the compaction/ rigidity and level of scaffolding's base, install supports at the appropriate locations using suitable formwork component, shift and stack tools and accessories required for piling work at the specified work location, and clean sludge and muck generated from the boreholes and dispose them of the designated location.</p>	
--	--	--	--

	<ul style="list-style-type: none">● Shift and stack tools and accessories required for piling work at the specific work location● Clean sludge and muck generated from the boreholes and dispose them of at the designated location		
Broad Learning Outcomes/Core Skill	<ul style="list-style-type: none">● Selection and use of appropriate rigging gear for RCC precast and structural steel units/ sections/ assemblies● Shifting RCC precast and structural steel units/ sections/ assemblies● Abrasive blasting on structural steel and precast RCC sections● Process of epoxy glueing in segmental RCC precast construction work● Shift, stack and clean pipe segments● Lay, join and dismantle concrete pump-line● Safe handling of staging components● Erecting and dismantling staging● Carry out piling in construction● Work effectively within a team to achieve the desired results● Work according to personal health, safety and environmental protocols at the construction site	The job holder is expected to select and use appropriate rigging gear for RCC precast and structural steel units/ sections/ assemblies, shifting RCC precast and structural steel units/ sections/ assemblies, abrasive blasting on structural steel and precast RCC sections, the process of epoxy glueing in segmental RCC precast construction work, shift, stack and clean pipe segments, laying, joining and dismantling concrete pump-line, safe handling of staging components, erecting and dismantling staging, carry out piling in construction, work effectively within a team to achieve the desired results, and work according to personal health, safety and environmental protocols at the construction site.	3.0

Responsibility	<p>The individual in this job role will be responsible for the below-mentioned activities:</p> <ul style="list-style-type: none">● Select the appropriate rigging gear, hand tools and PPEs● Prepare for lifting operations● Shift RCC precast units or steel components● Carry out abrasive blasting to structural steel and precast RCC sections● Carry out epoxy glueing in segmental RCC precast construction work● Shift, stack and clean pipe segments● Lay, join and dismantle concrete pump-line● Handle staging components● Assist in the erection and dismantling of staging● Carry out preparatory activities● Assist in piling work● Interact and communicate in an effective manner● Support co-workers to execute the project requirements● Practice inclusion● Follow safety norms as defined by the organization● Adopt healthy & safe work practices● Implement good housekeeping and environment protection process and activities● Follow infection control guidelines as per applicability	<p>A Khalasi (Assistant Rigger) is responsible for shifting and preparing the surface of heavy structural steel/ Reinforced Cement Concrete (RCC) precast units, laying concrete pump lines, assisting in the erection of staging for heavy RCC structures, and pile foundations by using appropriate rigging gear, hand tools at the construction site. The individual works under supervision.</p>	3.0
-----------------------	---	--	-----

Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and EquipmentBatch Size: 30 Candidates

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Spud Wrenches	Number	10
2.	Open-End Wrenches	Set	6
3.	Crescent Wrenches	Number	10
4.	Hammer	Number	10
5.	Nibbler	Number	3
6.	Pliers	Number	6
7.	Impact Wrench	Number	3
8.	Drilling Machine With Bits	Number	1
9.	Electric Screw Gun	Number	1
10.	Electric Hexa Saw	Number	1
11.	Measuring Tape	Number	10
12.	Plumb Bob	Number	4
13.	Spirit Level	Number	4
14.	Chalks Line	Number	6
15.	Try Square	Number	10
16.	Water Level	Number	3
17.	Tower Crane	Number	1
18.	Mobile Crane	number	1
19.	Forklift	Number	1
20.	Scissor Lift	Number	1
21.	Hydraulic Jacks	Number	1
22.	Electric Wire Rope Hoist	Number	1
23.	Electrical Winch	Number	1
24.	Electrical Chain Hoist	Number	1
25.	Slings	Set	6

26.	Wire Ropes	Bundle	2
27.	Shackles	Number	6
28.	Spreader Board	Number	3
29.	Chain	Set	1
30.	Link	Set	1
31.	Eye Hook	Number	2
32.	Eye Bolts	Number	2
33.	Bull Dog Grips	Number	20
34.	Clamp	Number	10
35.	Socket	Number	10
36.	Safety Helmet	Number	30
37.	Safety Goggles	Number	30
38.	Safety Shoes	Number	30
39.	Safety Belt	Number	6
40.	Cotton Gloves	Number	30
41.	Ear Plugs	Number	30
42.	Reflective Jackets	Number	30
43.	Dust Mask	Number	30
44.	Fire Prevention Kit	Number	2
45.	Barricade Tape	Bundle	4
46.	Safety Tags	Number	5
47.	Scrappers	Number	6
48.	Wire Brushes	Number	6
49.	Caulking Gun	Number	1
50.	Caulking Iron	Number	6
51.	Caulking Mallet	Number	6
52.	Air Compressor	Number	1
53.	Face Shield	Number	10
54.	Overalls	Number	30
55.	Knee Pads	Number	30

56.	Safety Harness	Number	30
57.	Fire Extinguisher	Number	2
58.	First Aid Box	Set	2
59.	Safety Notice Board	Number	5

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)
1	Samerka Consultants Pvt. Ltd.	Laxmikant B. Umarji	Director	Moreshwar Krupa Society, Babi Dhuri Marg, NCH Colony, Kanjurmarg East, Mumbai	9820087948	samerkacpl@gmail.com	https://www.linkedin.com/company/samerka-consultants-private-limited/about/
2	Project Management Consultant	Balkrishna R. Kulkarni	Associate Vice President	2nd Floor, Mufaddal Shopping Arcade, Ramchandra Bhatt Marg, Noorbaug, Mumbai	9819657656	Brkulkarni1@gmail.com	https://www.linkedin.com/in/balkrishna-kulkarni-a62721173/?original_referer=https%3A%2F%2Fwww%2Egoogle%2Ecom%2F&originalSubdomain=in

3	Know How Schools LLP	Dipesh Bafna	Partner	haramraj Chowk, DY Patil College Rd, Sector 29, Nigdi, Pimpri-Chinchwad	9405266123	lern@knowhowschools.com	https://www.linkedin.com/in/dipesh-bafna/
4	Shrikant Gajanan Mhatre - Consulting Engineer & Valuer	Shrikant Gajanan Mhatre	Consulting Engineer & Valuer	Raigad - Maharashtra. 402 107	9689728209	sshri1000@gmail.com	
5	AK Consulting	Nirman Jain	Technical Lead	Bangalore, Karnataka	7042447336	nirmanjain777@gmail.com	
6	Feedback Advisory	Mohit Sharma	Manager	Jasola District Center Delhi	8800091932	mohit@advisoryfeedback.com	https://www.linkedin.com/in/mohit-sharma-95223875/
7	Pipal Tree Ventures Pvt. Ltd.	S. Suresh Reddy P. Rajesh	Project Head – State Sr. Manager - Training	Goregaon East, Mumbai, Maharashtra	8247477793 9985282550	sraddey@pipaltreeventures.com prajesh@pipaltreeventures.com	
8	L&T Construction	DK Sharma	Principal - CSTI	TSIIC Green Industrial Park, Jadcherla, Mahabubnagag Telangana	7660986699	deepaks@Intecc.com	

9	Jawaharlal Nehru Architecture & Fine Arts	K. Chandrakanth	Asst. Professor	Masab Tank, Hyderabad, Telangana	9293163582	Kchandrakanth.fsp@jnafau.ac.in	
10	Senryaku Consulting	Shiv Shankar Singh	Co-Founder	DLF Ultima, UTC031, Sector 81, Gurugram, Haryana, 122004	9560338881	shivs@senryakuconsulting.com	https://www.linkedin.com/in/shiv-shanker-s-393bb78/
11	Sattva Consulting	Vijay Yvcs	Principal-Corporate Advisory/Sustainability/ESG	8/581, Solitaire Park, Guru Hargovindji Rd, Chakala, Andheri East, Mumbai, Maharashtra	8886415165	Vijay.yvcs@sattva.co.in	https://www.linkedin.com/in/vijay-yvcs-838347b/?originalSubdomain=in
12	Feast	Ghanashyam Warke	VP-Business Development	510, Neelkanth Corporate Park, Vidyavihar West, Mumbai, Maharashtra	9664440843	sales@enggonline.com	https://www.linkedin.com/in/ghanashyam-warke-a44aa417/?originalSubdomain=in
13	My Home Group	MVT Satish Kumar	General Manager – Planning &	1-123, 8th Floor, 3rd Block, My Home Hub	9154292348	Satishkumar.mvt@myhomeconstructions.com	https://www.linkedin.com/in/satish-kumar-

			Development	Madhapur, Hi-tech City Hyderabad			mvt/?originalSubdomain=in
14	Xpert Decors Pvt. Ltd.	V. Nageswara Rao	MD & CEO	Store No. 8,9,10, Prime Lotus, Hyderabad	9121214079	Nageshwar.xpert@gmail.com	https://www.linkedin.com/in/v-nageswara-rao-3590425/?originalSubdomain=in
15	Freelance Architect (Individual Consultant)	Garvit Sharma	Architect	A-101 Radha Krishna Lane, Kaushambi, Ghz, U.P.	9971967901	grsharma97@gmail.com	
16	L.K. Engicons	Sameer	Owner	Meerut, Uttar Pradesh	9808170639	sales@lkengicons.com	
17	Institute of Management Technology (IMT)	Sandeep Sharma	Chief Project Engineer & Senior Counsellor	Raj Nagar, Ghaziabad, Uttar Pradesh 201001	9810566031	sharma.sandyk@gmail.com	
18	Asirbadh Projects and Infrastructure Limited	Kunwar Jee	GM (Projects)	Ranchi, Jharkhand	7858801901	ahplmd@yahoo.com	

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
2024-25	1000	750	150	90	Subject to the requirement of the Industry	Subject to the requirement of the Industry
2025-26	1000	750	200	140	Subject to the requirement of the Industry	Subject to the requirement of the Industry
2026-27	1000	750	300	220	Subject to the requirement of the Industry	Subject to the requirement of the Industry

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
v2.0	2022-23	250	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA
v2.0	2021-22	200	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA
v2.0	2020-21	182	23	22	22	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:

1. PMKVY 2.0
2. PMKVY 3.0

Content availability for previous versions of qualifications: NA

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: NA

NSQC APPROVED

Annexure 5: Detailed Assessment Criteria

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

Assessment Criteria

NOS Name	CON/N0701: Shift RCC precast/ structural steel units at construction sites			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Select the appropriate rigging gear, hand tools and PPEs</i>	9	25	-	4
PC1.select the appropriate hand tools, rigging gear and Personal Protection Equipment (PPE) for lifting and shifting heavy material at construction sites	-	-	-	-
PC2.check the hand tools, rigging gear and PPE for their usability and perform basic repair and maintenance, as appropriate	-	-	-	-
PC3.identify the faults requiring expert assistance and coordinate with the supervisor to resolve them	-	-	-	-
PC4.identify and store the faulty rigging gear separately as per the given instructions	-	-	-	-
<i>Prepare for lifting operations</i>	10	20	-	3
PC5.identify and remove obstructions from the lifting equipment operation area, and report conditions that are unsafe for material lifting and shifting	-	-	-	-
PC6.check the suitability of loading and unloading area to ensure safe loading and unloading of heavy loads	-	-	-	-
PC7.prepare the loads for lifting as per the supervisor's instructions	-	-	-	-

PC8.assist in the use of earth moving equipment or compactors to prepare the base for heavy lifting equipment	-	-	-	-
<i>Shift RCC precast units or steel components</i>	11	15	-	3
PC9.assist in checking and ensuring the presence of safety signage, illumination, barricading at the route of material shifting as per the agreed work plan	-	-	-	-
PC10.place the prescribed supports, frames, blocking and cushioning on the deck of transporting vehicle as per instructions to prevent damage to the units during transit	-	-	-	-
PC11.anchor units to the appropriate locations and hook up with the prescribed lifting equipment by using slings, shackles, ropes or lifting hooks, and secure to prevent slipping or deflection	-	-	-	-
PC12.assist in loading precast or structural steel units in the transporting vehicle as per the supervisor's instructions	-	-	-	-
PC13.assist in controlling the position of suspended loads during shifting by using tag lines and relevant equipment	-	-	-	-
PC14.assist in offloading units from vehicle to ground at the point of heavy lifting	-	-	-	-
PC15.place suitable materials, such as wooden sleepers and stools on the base as per the given instruction to create ground clearance for the materials and provision for further lifting	-	-	-	-
PC16.assist in placing and de-slinging material on the sleepers safely as per the given instructions	-	-	-	-
NOS Total	30	60	-	10

NOS Name	CON/N0702: Prepare the surface of RCC precast units or structural steel units			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out abrasive blasting to structural steel and precast RCC sections</i>	15	30	-	6
PC1.check the surroundings as per the given instructions to ensure safe conditions for sandblasting and assist in erecting appropriate protection, as required	-	-	-	-
PC2.adjust the air compressor and sandblaster gauges to the correct or desired pressure, as instructed	-	-	-	-
PC3.connect the compressor and blasting equipment safely before undertaking the blasting activity	-	-	-	-
PC4.carry out sandblasting as per the given instructions and clean the unwanted substances from the RCC or metal surface	-	-	-	-
<i>Carry out epoxy gluing in segmental RCC precast construction work</i>	15	30	-	4
PC5.clean dust, laitance, unwanted articles from the joints between RCC precast components where gluing is to be done	-	-	-	-
PC6.prepare glue-mix following the given instructions	-	-	-	-
PC7.apply glue to the concrete surface as per the specification or instructions using the suitable means of application	-	-	-	-
NOS Total	30	60	-	10

NOS Name	CON/N0703: Lay and dismantle concrete pump-line			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Shift, stack and clean pipe segments</i>	16	29	-	4
PC1.conduct appropriate checks on pipe segments for their usability	-	-	-	-
PC2.shift and stack pipe segments at the appropriate location as per the given instructions	-	-	-	-
PC3.select and shift clamps and required hand tools to the work location as per instructions	-	-	-	-
PC4.clean the pipe segments before and during the concreting work as per the requirement	-	-	-	-
<i>Lay, join and dismantle concrete pump-line</i>	14	31	-	6
PC5.join pipe segments using appropriate clamps, turnbuckles, hand tools and supporting tools under supervision	-	-	-	-
PC6.construct working platforms at appropriate intervals for the maintenance of pump line	-	-	-	-
PC7.assist in lifting pipe segments at the required heights using rigging tools as per the work requirement	-	-	-	-
PC8.carry out ramming of external pipes to check continuity of flow of concrete during concreting work as per instructions	-	-	-	-
PC9.align pipelines providing required support at the identified locations to provide stability and water tightness	-	-	-	-

PC10.use standard bent pipes as per the instruction to ensure desired flow of concrete in the pipeline	-	-	-	-
PC11.join, cut, clean and realign pump lines according to the concreting work needs and the given instructions	-	-	-	-
PC12.dismantle and lower pump line safely, using the appropriate tools	-	-	-	-
NOS Total	30	60	-	10

NOS Name	CON/N0704: Assist in carrying out staging for heavy RCC work			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Handle staging components</i>	17	28	-	4
PC1.select appropriate staging components, such as trestles, heavy duty H- frames, acrowspans, base jacks, clamps etc., as instructed	-	-	-	-
PC2.check the staging components visually to ensure their physical condition is safe for working	-	-	-	-
PC3.shift and stack required staging materials, chain pulleys, ropes, hooks, shackles required for erecting staging to the work location as directed	-	-	-	-
<i>Assist in erection and dismantling of staging</i>	13	32	-	6
PC4.check for the compaction/ rigidity and level of scaffolding's base	-	-	-	-
PC5.assist in erecting vertical and bracing components at the specified intervals as per instructions	-	-	-	-

PC6.assist in lifting staging components at the required locations using appropriate tools and tackles, such as chain hoist, pulley, hooks, etc.	-	-	-	-
PC7.install supports at the appropriate locations using suitable formwork component as per direction	-	-	-	-
PC8.follow appropriate housekeeping practices to ensure health and safety the work site	-	-	-	-
NOS Total	30	60	-	10

NOS Name	CON/N0705: Assist in in-situ RCC piling work			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out preparatory activities</i>	12	26	-	4
PC1.shift and stack tools and accessories required for piling work at the specified work location as per the given instructions	-	-	-	-
PC2.assist in erecting piling tripod at the appropriate positions	-	-	-	-
PC3.assist in establishing winch, pumps and pipelines required for piling operation at the specified locations	-	-	-	-
PC4.erect barricading and safety signage at the work location as per instruction	-	-	-	-
PC5.clean the piling tools and accessories before and after the concreting work	-	-	-	-
<i>Assist in piling work</i>	18	34	-	6

PC6.apply bentonite to the earth-pit as per the requirement and instructions	-	-	-	-
PC7.clean sludge and muck generated from the boreholes and dispose them of the designated location	-	-	-	-
PC8.carry out cleaning and greasing of concreting tremie pipe, funnel and other accessories as required	-	-	-	-
PC9.assist in shifting and lowering reinforcement cage into the bored hole of the pile before concreting	-	-	-	-
PC10.carry out manual earthwork according to the work requirement/ instructions	-	-	-	-
NOS Total	30	60	-	10

NOS Name	CON/N8001: Work effectively in a team to deliver desired results at the workplace			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Interact and communicate in an effective manner</i>	18	42	-	-
PC1. pass on work related information/ requirement clearly to the team members	-	-	-	-
PC2. inform co-workers and superiors about any kind of deviations from work	-	-	-	-
PC3. report any unresolved problem to the supervisor immediately	-	-	-	-
PC4. obtain instructions from superiors and respond on the same	-	-	-	-
PC5. communicate to team members/subordinates for appropriate work technique and method	-	-	-	-

PC6. seek clarification and advice as per the requirement	-	-	-	-
<i>Support co-workers to execute the project requirements</i>	6	14	-	-
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	-	-	-	-
<i>Practice inclusion</i>	6	14	-	-
PC9. maintain cultural inclusivity at work place	-	-	-	-
PC10. maintain disability friendly work practices	-	-	-	-
PC11. follow gender neutral practices at workplace	-	-	-	-
PC12. address discriminatory and offensive behaviour in a professional manner as per organizational policy	-	-	-	-
NOS Total	30	70	-	-

NOS Name		CON/N9001: Work according to personal health, safety and environment protocols at construction site			
Assessment Criteria for Outcomes		Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Follow safety norms as defined by the organization</i>		6	14	-	-
PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority		-	-	-	-
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. follow all the protocols and safety techniques conveyed during safety awareness programs like Tool Box Talks, safety demonstrations and mock drills conducted at the site		-	-	-	-

PC5. select and operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline	-	-	-	-
PC6. identify near miss, unsafe condition and unsafe act	-	-	-	-
<i>Adopt healthy & safe work practices</i>	15	35	-	-
PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements for : Head Protection, Ear protection, Fall Protection, Foot Protection, Face and Eye Protection, Hand and Body Protection , and Respiratory Protection (if required)	-	-	-	-
PC8. handle all required tools, tackles, materials and equipment safely	-	-	-	-
PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines	-	-	-	-
PC10. check and install all safety equipment as per standard guidelines	-	-	-	-
PC11. follow safety protocols and practices as laid down by site EHS department	-	-	-	-
PC12. obtain "height pass" clearance for working at heights	-	-	-	-
<i>Implement good housekeeping practices</i>	6	14	-	-
PC13. collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature	-	-	-	-
PC14. apply ergonomic principles wherever required	-	-	-	-
<i>Follow infection control guidelines as per applicability</i>	3	7	-	-
PC15. follow recommended personal hygiene, workplace hygiene and sanitization practices	-	-	-	-
PC16. clean and disinfect all materials, tools and supplies before and after use	-	-	-	-

PC17. report immediately to concerned authorities regarding signs and symptoms of illness of self and others	-	-	-	-
NOS Total	30	70	-	-

NOS Name		DGT/VSQ/N0101: Employability Skills (30 Hours)			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks	
<i>Introduction to Employability Skills</i>	1	1	-	-	
PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-	
<i>Constitutional values – Citizenship</i>	1	1	-	-	
PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-	
<i>Becoming a Professional in the 21st Century</i>	1	3	-	-	
PC3. explain 21st Century Skills such as Self- Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-	
<i>Basic English Skills</i>	2	3	-	-	
PC4. speak with others using some basic English phrases or sentences	-	-	-	-	
<i>Communication Skills</i>	1	1	-	-	
PC5. follow good manners while communicating with others	-	-	-	-	
PC6. work with others in a team	-	-	-	-	
<i>Diversity & Inclusion</i>	1	1	-	-	
PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-	
PC8. report any issues related to sexual harassment	-	-	-	-	

<i>Financial and Legal Literacy</i>	3	4	-	-
PC9. use various financial products and services safely and securely	-	-	-	-
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-

Annexure 6: Assessment Strategy

Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP
- The batch allocation Matrix prepared for each month based on previous months' performance of AAs, which determines the quantum of Assessment which can be allocated to each AA for a month
- Post allocation of assessment, Assessment agencies send the assessment confirmation to SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process.

2. Testing Environment:

- A combination of Theory and practical/demonstration test is deployed to assess knowledge and Skill respectively of Learners.
- Assessment is conducted at Training center in in-person/offline mode
- For Skill assessment, environment is simulated to create a realistic Working Environment that should replicate the key features of the workplace. In job roles, where it is difficult to replicate the same, the OJT assessment is implemented.
- During the practical task, trainees are assessed on their workmanship, quality of finished product, time management, etc., based on the performance criteria (PC), knowledge and understanding and their professional and soft skills as specified in the qualification pack.
- Knowledge assessment is done through closed ended questions up to level 4 and from level 5 onwards, it is mixture of open ended and closed ended questions

3. Assessment Quality Assurance levels/Framework

- Assessment criteria is developed for each QP which acts as a guide for developing question set /banks
- Sample questions aligned with Assessment criteria for each QP are developed by SSC and validated by industry
- Taking reference of Assessment criteria and Sample Questions, AAs create the question bank which is further validated by SSC
- Questions are mapped to the specified assessment criteria
- It is mandatory that Assessor and Trainer must be ToA certified & ToT Certified respectively
- Continuous Monitoring through virtual and In-person mode are conducted to ensure the assessment is conducted as per stipulated process

- Process and Technical audit of assessment batches by quality team are conducted to avoid the errors in assessment process
- A well -defined comprehensive framework of NON-COMPLIANCE MATRIX is defined and implemented to identify the non-compliance made by assessor and AA and punitive actions are taken correspondingly.
- The capacity building sessions are conducted regularly for assessors and assessment agencies to update them about best practices in assessment

4. Types of evidence or evidence-gathering protocol:

- Post Assessment, the evidences are uploaded by Assessor to assessment agency and further assessment agency to SSC as per stipulated TAT
- Evidences are broadly the photographic and video graphic in nature
- Assessment agencies upload the evidence on SIP and detailed evidence on SSC digital platform (ZoHO)
- Evidences are; NOS wise-Geotagged photographs and videos of Theory Test & Practical Tasks, Attendance sheet, result summary sheet, group photographs.

5. Method of verification or validation:

- The process and technical audit of assessment batches are done by SSC
- Attendance of each candidate is verified and it is ensured that only those candidates are assessed by assessors who are meeting the stipulated minimum percentage of attendance
- The result of each candidate is verified, it is verified that that result on SIP are matching with respect to summary sheet submitted by AAs
- Under detailed technical audit for sample of batches, the knowledge and skill assessment results for each candidate is checked in technical aspect.
- All the evidences of batches are preserved on server of SSC digital platform

On the Job:

- On job training (OJT), candidates undergo training and leaning at actual workplace for a fixed period of time and a certain weightage of assessment is allocated out of total skill weightage of Qualification Pack for undergoing OJT as stipulated by CSDCI. This OJT score and assessors' end point score are combined to arrive at final Marking/grading of trainees' skill test. The OJT score is determined by Supervisor of company under which candidates undergo on job training.

Annexure 7: Acronym and Glossary

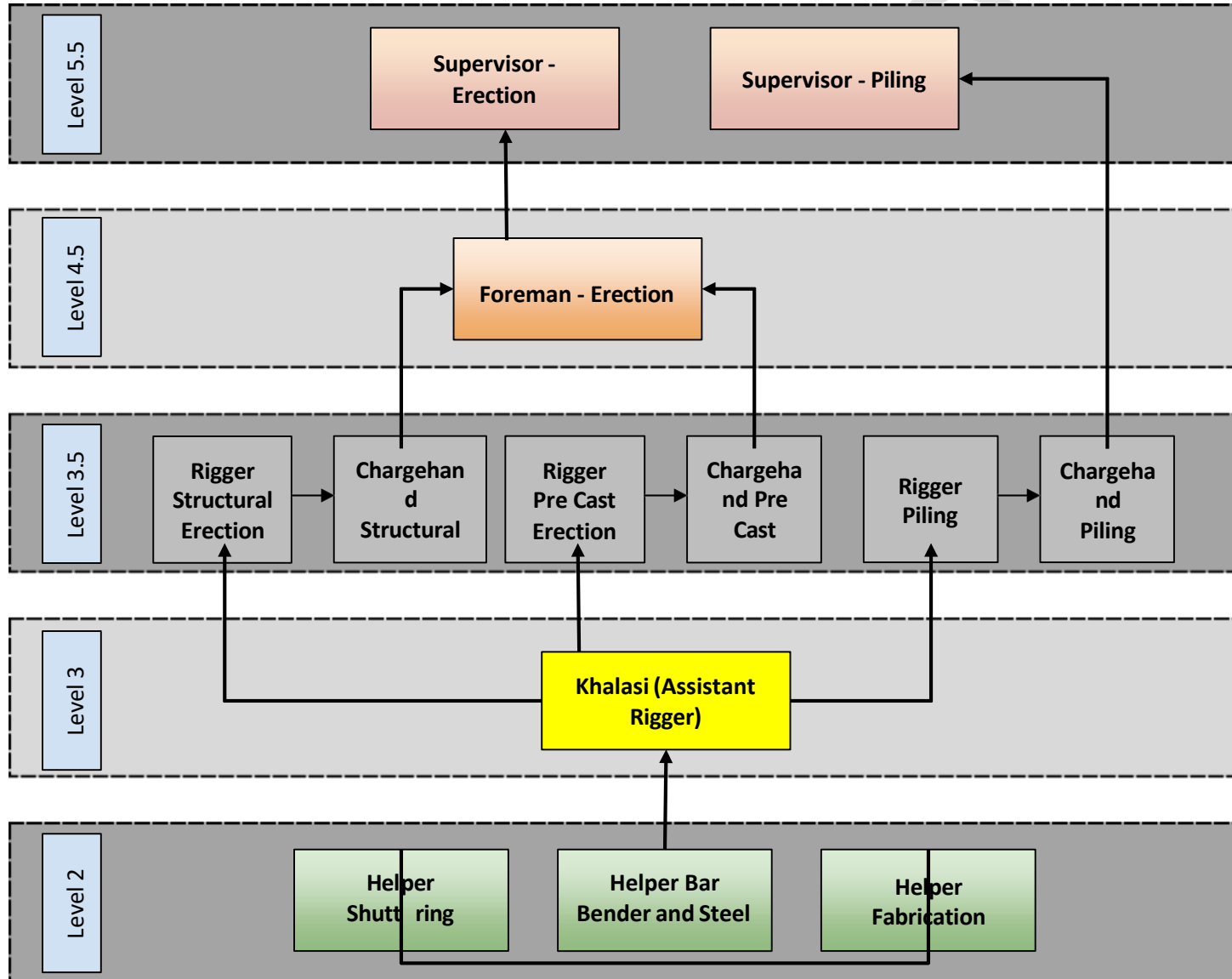
Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
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
OJT	On the Job Training

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

Annexure 8: Occupational Map



Annexure 9: Career Progression

