



QUALIFICATION FILE

Assistant Construction Fitter

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:

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Section 1: Basic Details

1. Qualification Name	Assistant Construction Fitter											
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/3298, v2.0)	Qualification Name of existing/previous version: Assistant Construction Fitter										
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-00789-2023-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	An Assistant Construction Fitter provides assistance in fit-up activities by placing, positioning, fixing and marking different structural steel elements after conducting proper measurements. The individual works under supervision and also assists in the edge preparation activities.											
9. Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	<p>a. Entry Qualification & Relevant Experience:</p> <table border="1" data-bbox="884 1068 1793 1369"> <thead> <tr> <th data-bbox="884 1068 982 1206">S. No.</th> <th data-bbox="982 1068 1402 1206">Academic/Skill Qualification (with Specialization - if applicable)</th> <th data-bbox="1402 1068 1793 1206">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td data-bbox="884 1206 982 1271">1.</td> <td data-bbox="982 1206 1402 1271">Grade 10</td> <td data-bbox="1402 1206 1793 1271"></td> </tr> <tr> <td data-bbox="884 1271 982 1369">2.</td> <td data-bbox="982 1271 1402 1369">Grade 8 pass with 2-year of (NTC/ NAC) after 8th</td> <td data-bbox="1402 1271 1793 1369"></td> </tr> </tbody> </table>			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	Grade 10		2.	Grade 8 pass with 2-year of (NTC/ NAC) after 8th	
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1.	Grade 10											
2.	Grade 8 pass with 2-year of (NTC/ NAC) after 8th											

		<table border="1"> <tr> <td>3.</td> <td>9th grade pass</td> <td>1-year relevant experience</td> </tr> <tr> <td>4.</td> <td>8th grade pass</td> <td>2-year relevant experience</td> </tr> <tr> <td>5.</td> <td>5th grade pass</td> <td>5-year relevant experience</td> </tr> <tr> <td>6.</td> <td>Previous relevant Qualification of NSQF Level 2</td> <td>3-year relevant experience</td> </tr> <tr> <td>7.</td> <td>Previous relevant qualification of NSQF Level 2.5</td> <td>1.5-year relevant experience</td> </tr> </table> <p>b. Age: 18 years</p>	3.	9th grade pass	1-year relevant experience	4.	8th grade pass	2-year relevant experience	5.	5th grade pass	5-year relevant experience	6.	Previous relevant Qualification of NSQF Level 2	3-year relevant experience	7.	Previous relevant qualification of NSQF Level 2.5	1.5-year relevant experience					
3.	9th grade pass	1-year relevant experience																				
4.	8th grade pass	2-year relevant experience																				
5.	5th grade pass	5-year relevant experience																				
6.	Previous relevant Qualification of NSQF Level 2	3-year relevant experience																				
7.	Previous relevant qualification of NSQF Level 2.5	1.5-year relevant experience																				
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	10	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>120</td> <td>120</td> <td>60</td> <td></td> <td>300</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	120	120	60		300	Online							
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																	
Classroom (offline)	120	120	60		300																	
Online																						
		(Refer Blended Learning Annexure for details)																				
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7214.0800																				

15.	Progression path after attaining the qualification (<i>Please show Professional and Academic progression</i>)	Vertical Progression: Construction Fitter - Level 3.5 Horizontal Progression: Grinder Construction- Level 3.0	
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 Fabrication 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 Fabrication 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 Fabrication 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					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Assist in marking and fit-up of structural steel elements	CON/N1203 & V4.0	Core	3.0	3	30	30	30	-	90	30	60	-	10	100	20
2.	Use relevant tools and tackles to handle heavy materials used in fit-up of fabricated components	CON/N1204 & V4.0	Core	3.0	2	30	30	-	-	60	30	60	-	10	100	20
3.	Assist in preparatory activities, edge reparation and positioning of steel sections for fit-up	CON/N1205 & V4.0	Core	3.0	3	20	10	30	-	60	30	60	-	10	100	30

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)	
4.	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	10	
5.	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	10	
6.	Employability Skills	DGT/VSQ/N0101 & V1.0	Non-Core	2.0	1	30	-	-	-	30	20	30	-	-	50	10	
Duration (in Hours) / Total Marks						10	120	120	60	-	300	170	350	-	30	550	100

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 (1 Year) Diploma in Civil/Mechanical/Electrical (2 Years) ITI in Civil/Mechanical/Electrical (4 Years) General BA/BSc. / EX-Army/ 12 th in Civil/Mechanical/Electrical (4 Years)
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Graduate (Civil or Mechanical Engineering (8 years) Diploma in (Civil Engineering/ Mechanical Engineering/ Manufacturing/ Mathematics/ Physics degree (10 years) ITI in Civil/ Mechanical/Electrical (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 Civil/Mechanical/Electrical (2 Years) Diploma in Civil/Mechanical/Electrical (4 Years) ITI in Civil/Mechanical/Electrical (5 Years)
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B. Tech in Civil/Mechanical/Electrical (2 Years) Diploma in Civil/Mechanical/Electrical (4 Years) ITI in Civil/Mechanical/Electrical (5 Years)
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) (10 years) Graduate (Civil Engineering/ Mechanical Engineering (8 years) ITI in Civil/ Mechanical/Electrical (13 Years) General BA/B.Sc/Ex-Army/12 th (13 Years)
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: Approx. 5000 to 5500 employees over a period of 5 years
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: <i>Approved</i> If "No", why:

Section 6: Annexure & Supporting Documents Checklist*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 assisting in marking and fit-up of structural steel elements ● Process of using relevant tools and tackles to handle heavy materials used in fit-up of fabricated components ● Process of assisting in preparatory activities, edge repair and positioning of steel sections for fit-up ● Process of Work effectively in a team to deliver desired results at the workplace ● Process of work according to personal health, safety and environment protocols at construction site 	<p>As detailed, the entire process followed by Assistant Construction Fitter is assisting in marking and fit-up of structural steel elements, using relevant tools and tackles to handle heavy materials used in fit-up of fabricated components, assisting in preparatory activities, edge repair and positioning of steel sections for fit-up, etc.</p> <p>As the work is routine and is repeated multiple times, the work becomes predictable.</p> <p>As the Assistant Construction Fitter 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</p>
Professional and Technical Skills/ Expertise/ Professional Knowledge	<ul style="list-style-type: none"> ● Know how to use the relevant marking and measurement tools and methods of measuring and marking ● Understand the applicable housekeeping practices to be followed to keep the work area clean ● Know different types of sections, plates, etc. ● Know how to interpret relevant hand sketches/ drawings ● Know how to handle heavy materials safely ● Know how to mitigate the safety hazards while working with heavy materials 	<p>The knowledge required for Assistant Construction Fitter is factual as it is specific and limited to the Knowledge of using the relevant marking and measurement tools and methods of measuring and marking, applicable housekeeping practices to be followed to keep the work area clean, different types of sections, plates, interpret relevant hand sketches/ drawings, handle heavy materials safely, mitigate the safety hazards while working with heavy materials, dispose of the scrap metal, install temporary supports and clamps for securing the workpiece etc.</p> <p>therefore, their knowledge is applicable to their field of work only</p>	<p>3</p>

	<ul style="list-style-type: none"> ● Know how to common fabrication hand and power tools ● Know how to use the tools in optimized manner ● Know how to carry out basic maintenance of different hand and power tools ● Understand the application of relevant ergonomic principles in carrying loads ● Knowledge of tools and tackles to be used in basic rigging work ● Know how to dispose of the scrap metal ● Know how to install temporary supports and clamps for securing the workpiece ● Understand the steps involved in removing the workpiece from the platform after fit-up 		
<p>Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill</p>	<ul style="list-style-type: none"> ● Select the structural steel materials ● Conduct linear measurements, such as length, width, diameter, using measuring tools ● Place the sections, plates, pipes or tubes in the appropriate position ● Use the appropriate Personal Protective Equipment (PPE) ● Collect and dispose of waste and unwanted materials ● Use different types of lifting and shifting arrangements ● Perform visual checks on lifting tools and accessories 	<p>As indicated the skill set is required to select the structural steel materials, conduct linear measurements, such as length, width, diameter, using measuring tools, place the sections, plates, pipes or tubes in the appropriate position, collect and dispose of waste and unwanted materials, use different types of lifting and shifting arrangements, perform visual checks on lifting tools and accessories, rearrange all jacks, clamps, position the components/ sections on the fabrication platform, mark the locations for tack welds, etc.</p>	<p>3</p>

	<ul style="list-style-type: none"> ● Control the position of suspended objects during shifting by using tagline, mobile hydraulic lifting equipment ● Rearrange all jacks, clamps ● Position the components/ sections on the fabrication platform ● Determine the orientation of bevel and scallop from the supervisor ● Mark the locations for tack welds ● Lift and shift materials using ropes, belts or other appropriate accessories 		
<p>Broad Learning Outcomes/Core Skill</p>	<ul style="list-style-type: none"> ● Marking structural steel elements and assisting in their fit-up. ● Using various tools, tackles and handling heavy materials used in fit-up of fabricated components. ● Assisting in preparatory activities, edge preparation and positioning of steel sections for fit-up. ● Work effectively within a team to achieve the desired results ● Work according to personal health, safety and environmental protocols at construction site 	<p>The job holder is expected to marking structural steel elements and assisting in their fit-up, using various tools, tackles and handling heavy materials used in fit-up of fabricated components, assisting in preparatory activities, edge preparation and positioning of steel sections for fit-up, work effectively within a team to achieve the desired results, work according to personal health, safety and environmental protocols at construction site</p>	<p>3</p>
<p>Responsibility</p>	<p>The individual in this job role will be responsible for the below-mentioned activities:</p> <ul style="list-style-type: none"> ● Measure and mark structural steel elements ● Follow health and safety practices 	<p>An Assistant Construction Fitter provides assistance in fit-up activities by placing, positioning, fixing and marking different structural steel elements after conducting proper measurements. The individual works under supervision and also assists in the edge preparation activities.</p>	<p>3</p>

	<ul style="list-style-type: none">● Use appropriate tools and tackles in fit-up● Shift structural steel sections● Prepare fabrication platform for fit-up operations● Prepare the edges of the components of assemblies● Position and fix structural elements● Interact and communicate in an effective manner Support co-workers to execute the project requirements Practice inclusion● 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)

List of Tools and EquipmentBatch Size: 30 Candidates

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Hand Gloves	Number	30
2.	Apron Leather	Number	30
3.	Gas Welding Goggles with Colour Glass	Number	10
4.	Chipping Hammer	Number	10
5.	Chisel	Number	10
6.	Clamps	Number	10
7.	Trolley for Cylinder	Number	1
8.	Cutting Cart	Number	1
9.	Head Protector	Number	30
10.	Electrodes	Number	10
11.	Cutting Guides	Number	10
12.	Power Source and Compression Unit With Internal Cooling System	Number	1
13.	Exhaust Fan	Number	3
14.	Light Source	Number	10
15.	Leather Hand Gloves	Number	30
16.	Jump Suit	Number	30
17.	Wire Brush	Number	10
18.	Hand & Leg Guards Leather	Number	30
19.	Safety Goggles	Number	30
20.	Nose Mask	Number	30
21.	Ear Protection	Number	30
22.	Fire Extinguishers	Number	2
23.	Welding Glass	Number	30
24.	Flashback Arrestors	Number	10

25.	Welding Helmet	Number	30
26.	Gas Pressure Measuring Guage	Number	1
27.	Plasma Cutting Torch	Number	6
28.	Nozzle With Consumables (Tip and Cap)	Number	6
29.	Reflecting Jackets	Number	30
30.	Safety Helmet	Number	30
31.	Safety Belts	Number	3
32.	Safety Shoes	Number	30
33.	Gum Shoes	Number	30
34.	First Aid Box	Number	2
35.	Safety 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 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@jna fau.ac.in	
10	Senryaku Consulting	Shiv Shankar Singh	Co-Founder	DLF Ultima, UTC031, Sector 81, Gurugram, Haryana, 122004	9560338881	shivs@senryakuconsul ting.com	https://www.linkedin.com/in/shiv-shanker-s-393bb78/
11	Sattva Consulting	Vijay Yvcs	Principal- Corporate Advisory/Sus tainability/ES G	8/581, Solitaire Park, Guru Hargovindji Rd, Chakala, Andheri East, Mumbai, Maharashtra	8886415165	Vijay.yvcs@sattva.co.i n	https://www.linkedin.com/in/vijay-yvcs-838347b/?originalSubdomain=in
12	Feast	Ghanashyam Warke	VP-Business Developmen t	510, Neelkanth Corporate Park, Vidyavihar West, Mumbai, Maharashtra	9664440843	sales@enggonline.co m	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@my homeconstructions.co m	https://www.linkedin.com/in/sathish-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	KunwarJee	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	1000	750	150	90		
2025	1000	750	200	140		
2026	1000	750	300	220		

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	1,743	635	619									
v2.0	2021-22	748	299	276									
v2.0	2020-21	400	-	-									

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. AICTE
2. DDU-KK
3. JSMD
4. UPSDM

Content availability for previous versions of qualifications:

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: English and Hindi

Annexure 5: Detailed Assessment Criteria

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

Assessment Criteria

NOS Name	CON/N1203: Assist in marking and fit-up of structural steel elements			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Measure and mark structural steel elements</i>	30	60	-	10
PC1.select the structural steel materials as per requirements and supervisor's instructions	-	-	-	-
PC2.conduct linear measurements, such as length, width, diameter, using measuring tools, such as tapers, rulers, calipers, etc.	-	-	-	-
PC3.determine the fit up requirements by reading and interpreting the relevant hand sketches/ drawings with the supervisor's help	-	-	-	-
PC4.place the sections, plates, pipes or tubes in the appropriate position as per the given instructions	-	-	-	-
PC5.mark the position of bolts, plates or sections for fit-up as per the given instructions	-	-	-	-
PC6.ensure the markings are as per the relevant hand sketches/ drawings	-	-	-	-
PC7.identify and report any undulations or bends during measurements to the supervisor for appropriate corrective measures to be taken	-	-	-	-
NOS Total	30	60	-	10

NOS Name	CON/N1204: Use relevant tools and tackles to handle heavy materials used in fit-up of fabricated components			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Follow health and safety practices</i>	11	15	-	3
PC1.identify potential hazard in the work area and report them to the relevant authority	-	-	-	-
PC2.follow appropriate safety measures while undertaking hazardous activities	-	-	-	-
PC3.use the appropriate Personal Protective Equipment (PPE) as per the supervisor's instructions	-	-	-	-
PC4.collect and dispose of waste and unwanted materials in an environment-friendly manner	-	-	-	-
PC5.ensure self-preparedness for emergencies by participating in safety drills	-	-	-	-
<i>Use appropriate tools and tackles in fit-up</i>	10	20	-	3
PC6.use correct tools and tackles for marking, liner and angular measurements, e.g. scribe, divider, punch, steel ruler, measuring tape, angle gauge, etc.	-	-	-	-
PC7.hold and tighten metal pieces using the appropriate tools and tackles, such as wrenches, vices, clamps etc.	-	-	-	-
PC8.cut and strike metal using correct tools, such as file, chisel, hammer, etc.	-	-	-	-
PC9.use different types of lifting and shifting arrangements such as chain pulley blocks, trolleys, etc.	-	-	-	-

PC10.perform basic maintenance of tools and tackles	-	-	-	-
<i>Shift structural steel sections</i>	9	25	-	4
PC11.determine the type of structural steel sections to be shifted	-	-	-	-
PC12.check the access route, and report any obstructions to the supervisor	-	-	-	-
PC13.perform visual checks on lifting tools and accessories, e.g. sling, rope, clamp, hook, etc., to ensure they are in usable condition	-	-	-	-
PC14.anchor the structural members in their right position during lifting to avoid accidents and overturning of lifting equipment	-	-	-	-
PC15.control the position of suspended objects during shifting by using tagline, mobile hydraulic lifting equipment, etc.	-	-	-	-
PC16.stack heavy objects appropriately as per the supervisor's instructions	-	-	-	-
NOS Total	30	60	-	10

NOS Name	CON/N1205: Assist in preparatory activities, edge repair and positioning of steel sections for fit-up			
Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare fabrication platform for fit-up operations</i>	10	20	-	3
PC1.clean the platform to remove any scrap metal and dispose it of as per given instructions	-	-	-	-
PC2.dismantle the previously installed temporary anchors and supports	-	-	-	-

PC3.check all the tools and tackles for holding, tightening, striking for their usability	-	-	-	-
PC4.rearrange all jacks, clamps as per requirement	-	-	-	-
PC5.clean the surface of the structural sections or components and the fabrication platform before welding, to ensure there is no obstruction in shifting of components	-	-	-	-
PC6.position the components/ sections on the fabrication platform as per the supervisor's instructions	-	-	-	-
<i>Prepare the edges of the components of assemblies</i>	11	15	-	3
PC7.determine the edge preparation requirements by interpreting hand sketches and consulting the supervisor	-	-	-	-
PC8.mark the positions of the edges to be prepared as per the hand sketches and given instructions	-	-	-	-
PC9.determine the orientation of bevel and scallop from the supervisor	-	-	-	-
PC10.carry out scalloping and beveling by operating the bevelling machine as required, following the relevant safety measures	-	-	-	-
PC11.assist in checking that the bevel and scallop profile is as per the applicable requirements	-	-	-	-
PC12.assist in identifying any undulations or other faults in the section	-	-	-	-
PC13.carryout jacking or striking operations to rectify minor defects as per the supervisor's instructions	-	-	-	-
<i>Position and fix structural elements</i>	9	25	-	4
PC14.position the structural components on the fabrication platform as per the given instructions, ensuring their correct position and orientation	-	-	-	-

PC15.assist in checking and ensuring that markings on the section are clearly visible before fixing the section	-	-	-	-
PC16.check that material has been scalloped, and edge preparation has been done as per the hand sketches or given instructions	-	-	-	-
PC17.place and tighten the clamps at the required positions to restrict the movement of section	-	-	-	-
PC18.place other components post dimensional checking on the fixed section as per the requirement and tighten the required clamps	-	-	-	-
PC19.adjust the fit-up correctly using striking, jacking or other methods as per the supervisor's instruction	-	-	-	-
PC20.mark the locations for tack welds as per the given instructions	-	-	-	-
PC21.check the dimensions of the assembly after tack welding	-	-	-	-
PC22.remove the fitted section/ assembly by loosening the clamps, vices etc.	-	-	-	-
PC23.lift and shift materials using ropes, belts or other appropriate accessories as instructed	-	-	-	-
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 sheets 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 learning 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

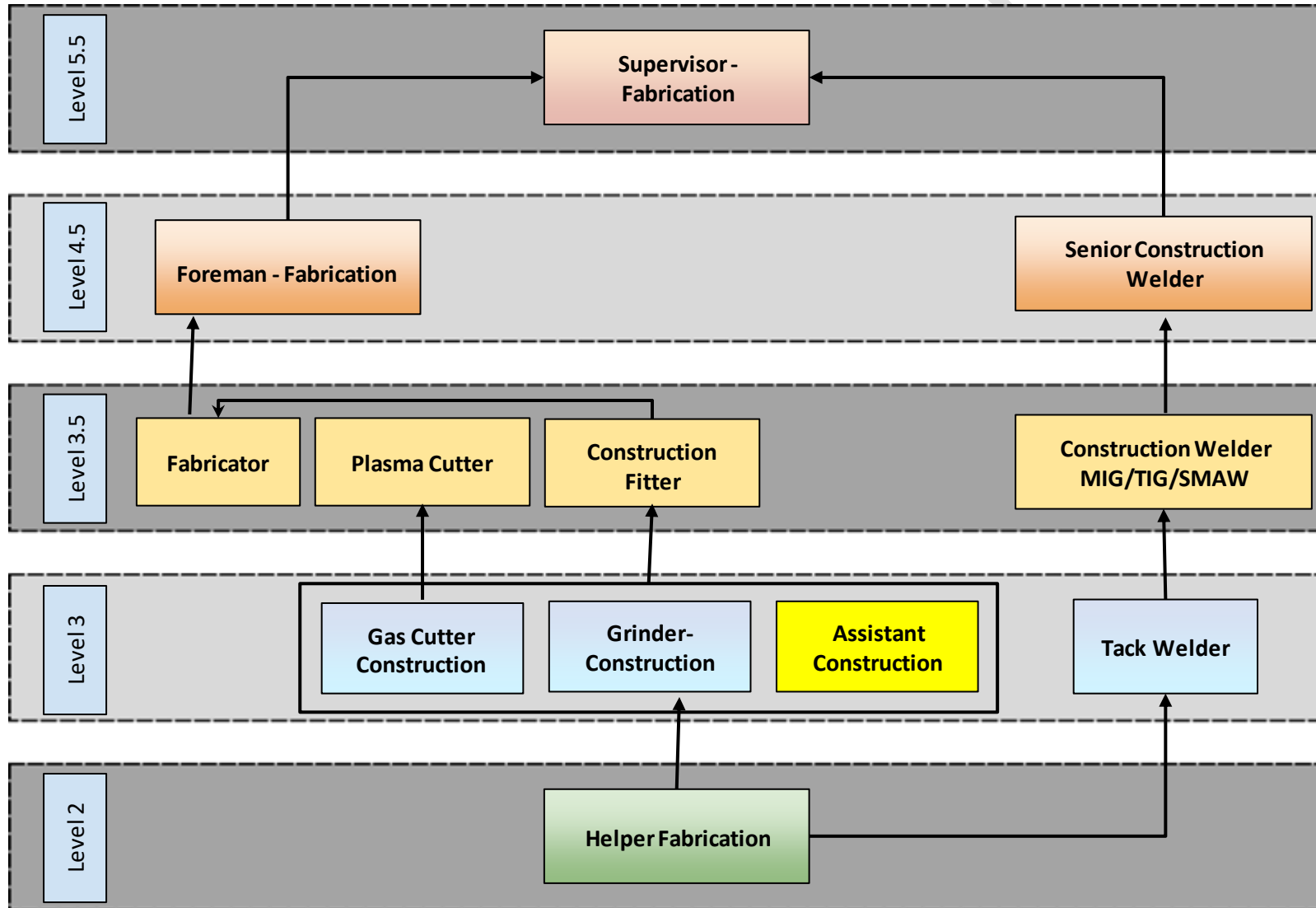
Acronym

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 define 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

