



QUALIFICATION FILE

Small Hydro Power Plant Technician

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

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

NCrF/NSQF Level: 4

Submitted By:

Skill Council for Green Jobs

Chief Executive Officer

CBIP Building, Malcha Marg,

Chanakyapuri, New Delhi – 110021

Contact no. and mail: 9899505533, ceo@sscgj.in

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Section 1: Basic Details

1	Qualification Name	Small Hydro Power Plant Technician																	
2	Sector/s	Environmental Science																	
3	Type of Qualification: ☒ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification:N/A		Qualification Name of existing/previous version: N/A															
4	a. OEM Name b. Qualification Name (Wherever applicable)	Small Hydro Power Plant Technician																	
5	National Qualification Register (NQR) Code &Version	QG-04-ES-03678-2025-V1-SCGJ		6. NCrF/NSQF Level: 4															
7	Award (Certificate/Diploma/Advance Diploma/ Any Other	Certificate																	
8	Brief Description of the Qualification	Small Hydro Plant Technician specializes to operate, test and maintain different electrical, hydro-mechanical, civil components of Small Hydro Power plants to meet the performance and reliability needs by incorporating quality workmanship and complying with all applicable codes, standards, and safety requirements																	
9	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10th grade pass with 2 years of any combination of NTC/NAC/CITS or equivalent</td> <td>NA</td> </tr> <tr> <td>2</td> <td>10th grade passes with two years of 3 years of regular diploma (in Electrical/ Mechanical/ Civil/ Instrumentation and related trades)</td> <td>NA</td> </tr> <tr> <td>3</td> <td>11th grade pass with 1.5 year of relevant experience</td> <td>NA</td> </tr> <tr> <td>4</td> <td>10th grade pass with 3 years of relevant experience</td> <td>NA</td> </tr> </tbody> </table>			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	10th grade pass with 2 years of any combination of NTC/NAC/CITS or equivalent	NA	2	10th grade passes with two years of 3 years of regular diploma (in Electrical/ Mechanical/ Civil/ Instrumentation and related trades)	NA	3	11th grade pass with 1.5 year of relevant experience	NA	4	10th grade pass with 3 years of relevant experience	NA
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																	
1	10th grade pass with 2 years of any combination of NTC/NAC/CITS or equivalent	NA																	
2	10th grade passes with two years of 3 years of regular diploma (in Electrical/ Mechanical/ Civil/ Instrumentation and related trades)	NA																	
3	11th grade pass with 1.5 year of relevant experience	NA																	
4	10th grade pass with 3 years of relevant experience	NA																	

		<table border="1"> <tr> <td>5</td><td>Previous relevant Qualification of NSQF Level 3.0</td><td>3 Years of experience relevant experience</td></tr> <tr> <td>6</td><td>Previous relevant Qualification of NSQF Level 3.5</td><td>1.5 years of relevant experience</td></tr> <tr> <td colspan="3"> <i>Relevant experience in O&M of the Hydro power plant/Electricity Distribution and Transmission/Erection/Commissioning of Hydro Power plant/ Turbine, Transformer, Electrical Equipment manufacturing/installation/operation etc/ Civil works related work experience in the Hydropower industry</i> </td></tr> </table>	5	Previous relevant Qualification of NSQF Level 3.0	3 Years of experience relevant experience	6	Previous relevant Qualification of NSQF Level 3.5	1.5 years of relevant experience	<i>Relevant experience in O&M of the Hydro power plant/Electricity Distribution and Transmission/Erection/Commissioning of Hydro Power plant/ Turbine, Transformer, Electrical Equipment manufacturing/installation/operation etc/ Civil works related work experience in the Hydropower industry</i>															
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<i>Relevant experience in O&M of the Hydro power plant/Electricity Distribution and Transmission/Erection/Commissioning of Hydro Power plant/ Turbine, Transformer, Electrical Equipment manufacturing/installation/operation etc/ Civil works related work experience in the Hydropower industry</i>																								
		b. Age: 18																						
10	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	20	11. Common Cost Norm Category: 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)	☒ Offline ☐ Online ☐ 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>Employability (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>205</td><td>215</td><td>120</td><td>0</td><td>60</td><td>600</td></tr> <tr> <td>Online</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> (Refer Blended Learning Annexure for details)		Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Employability (Hours)	Total (Hours)	Classroom (offline)	205	215	120	0	60	600	Online						
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Employability (Hours)	Total (Hours)																		
Classroom (offline)	205	215	120	0	60	600																		
Online																								
14	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO/2015- 3115.0102 Maintenance Technician – Mechanical																						

15	Progression path after attaining the qualification (Please show Professional and Academic progression)	Vertical Progression: SHP O&M Engineer (Level 5)	
16	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Nil	
17	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No	
18	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability: ☐ Deaf ☐ Hard of Hearing ☐ Acid Attack Victims ☐ Dwarfism	
19	How Participation of Women will be Encouraged	Training Partners shall be encouraged to onboard at least a certain number of female candidates in each batch	
20	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☐ No	
21	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☒ Yes ☐ No Colleges ☒ Yes ☐ No	
22	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Arpit Sharma Email: ceo@sscgi.in Contact No.: 9899505533 Website: https://sscgi.in/	
23	Final Approval Date by NSQC: 18th Feb 2025	24. Validity Duration: 3 years	25. Next Review Date: 17 th March 2028

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/N SQF 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.	SGJ/N1205– Study components and layout of Small Hydro Power (SHP) Plant	SGJ/N1205 Version 3	Core	4	3	60	30	-		90:00	30	20	-	-	50	14
2.	SGJ/N0701 – Inspect different components of Small Hydro Power (SHP) Plant	SGJ/N0701 Version 3	Core	4	3	40	50			90:00	20	30	-	-	50	14
3.	SGJ/N0610 – Start and shut Small Hydro Power (SHP) Plant	SGJ/N0610 Version 3	Core	4	2	30	30			60:00	26	24	-	-	50	14
4.	SGJ/N0106 – Maintain Personal health & safety at project site	SGJ/N0106 Version 4	Core	4	1	15	15			30:00	21	29	-	-	50	14

5.	DGT/VSQ/N0102- Employability Skills	DGT/VSQ/ N0101	Non - Core	-	2	-	-			60:00	20	30	-	-	50	14
6.	On the Job training				4					120						
Duration (in Hours) / Total Marks					15	145	125	120		450	117	133			250	70

Elective Nos/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/N SQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT - Man.	OJT-Rec.	Total	Th.	Pr.	P r o j .	Viv a	Total	Weightage (%) (if applicable)
7.	SGJ/N0611 – Study electro-mechanical system of Small hydro plant and its O&M	SGJ/N0611 Version 2	Core	4	5	60	90	-	-	150:00	52	48	-	-	100	30
8.	SGJ/N0612 – Study Hydro-mechanical and Civil system of Small hydro plant and its O&M	SGJ/N0612 Version 2	Core	4	5	60	90	-	-	150:00	29	21	-	-	50	30

Assessment - Minimum Qualifying Percentage

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

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	B.E/B.Tech with three years of Relevant Industry Experienced and three years of Training Experience in Electrical/ Electronics/Agriculture/Civil/Instrumentation
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	B.E/B.Tech with five years of Relevant Industry Experienced and five years of Training Experience in Electrical/ Electronics/Agriculture/Civil/Instrumentation
3.	Tools and Equipment Required for Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	Not Applicable

Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B.E/B.Tech with five years of Relevant Industry Experienced and five years of Training Experience in Electrical/ Electronics/Agriculture/Civil/Instrumentation
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B.E/B.Tech with five years of Relevant Industry Experienced and five years of Training Experience in Electrical/ Electronics/Agriculture/Civil/Instrumentation
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B.E/B.Tech with 10 years of Relevant Industry Experienced and five years of Training Experience in Electrical/ Electronics/Agriculture/Civil/Instrumentation
4.	Assessment Mode (Specify the assessment mode)	Online and offline both
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☒ Yes ☐ 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): No
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): - It addresses the need for skilled manpower in installation, operation, maintenance, and repair of these projects. Training programs are implemented by IIT Roorkee to create a qualified workforce. The initiative is part of a larger renewable energy skill development scheme aimed at bridging the skill gap in the sector. https://cdnbbsr.s3waas.gov.in/s3716e1b8c6cd17b771da77391355749f3/uploads/2023/01/2023012065.pdf - The estimated potential of 21133 MW from 7133 sites for power generation in the country from small / mini hydel projects was assessed by Hydro and Renewable Energy Department(HRED), earlier known as Alternate Hydro Energy Centre (AHEC) of IIT Roorkee and compiled it as Small Hydro Database of July 2016. The hilly States of India mainly Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir and Uttarakhand constitute around half of this potential. Other potential States are Maharashtra, Chhattisgarh, Karnataka and Kerala. Focused attention is given towards these States through close interaction with these States (MNRE)
3.	Government /Industry initiatives/ requirement (Yes/No): Yes, Evidence of the qualification is supported by validations with representation from across sub sectors. The complete list of validating companies has been enclosed as an annexure to the Q file.

4.	Number of Industry validation provided: 22
5.	Estimated nos. of persons to be trained and employed : Over the 5-year period from FY 2021-22 to FY 2025-26, a total of 1,780 individuals will be trained for the installation, operation, repair, and maintenance of Small Hydro Power Projects. This includes 1,680 participants who will undergo direct training and 100 trainers who will be prepared to deliver high-quality training programs. The initiative focuses on building a skilled workforce to ensure the sustainable and efficient functioning of Small Hydro Power Projects across the country.
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Requested to Ministry of New and Renewable Energy, GoI

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>	Annexure: Evidence of Level
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Annexure: Tools and Equipment (Lab Set-Up)
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Annexure: Detailed Assessment Criteria (Mandatory)
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Annexure: Assessment Strategy
5.	Annexure: Acronym and Glossary <i>(Optional)</i>	Annexure: Acronym and Glossary
6.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Attached
7.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	Annexure: Career progression and OM
8.	Supporting Document: Occupational Map <i>(Mandatory)</i>	Annexure: Career progression and OM
9.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	Annexure: Assessment Strategy

Annexure: Evidence of Level

Title/Name of qualification/component: Small Hydro Power Plant Technician Level: 4			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
Process	The individual is expected to operate, test and maintain different electrical, hydro-mechanical, civil components of small Hydro Power Plant to meet the performance and reliability needs, incorporating quality workmanship and complying with all applicable codes, standards and safety requirements	The individual performs activities such as operating, periodically testing the electrical, hydro-mechanical and civil components of the power plant through inspection of different components of the power plant such as Desilting tank, pipe/tunnel, valves, etc. Hence, role qualifies as a Level 4 role	4
Professional knowledge	The individual is expected to exhibit the knowledge of basic Working principle of a small Hydro Plant, main components of SHP, different types of streams, basic electricity rules, electricity generation, electrical symbols and single line diagrams, discharge measurement system, sediment measurement system, channel /pipe/tunnel systems, dealing with tripping of units in abnormal conditions, basic knowledge of hydro turbine, Governor, OPU, hydro generator, AVR & excitation system, basic knowledge about types of transformers and switchyards	The job holder is expected to exhibit an understanding factual knowledge of the field of power plant operation and maintenance. For example, she/he is expected to know the various types of faults that can occur in various components of SHP plant, various types of tools, measuring equipment involved in maintenance and troubleshooting of components of SHP plant, various methods of fault prevention like regular inspection of various components of the SHP plant. Further, she/he should know about the risks and hazards/ safe working practices/ materials and equipment needed/ tasks and activities to the required standard. She/he should also have the ability to speak read and write in the local vernacular language and English.	4

Title/Name of qualification/component: Small Hydro Power Plant Technician		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
Professional skill	The job holder is expected to operate/ use screw driver, inspection fixtures, wire cutter, pliers, testers, spanner, etc., plan and organize the regular inspection and maintenance activities to be conducted at the SHP plant. Further, the job holder must be able to take the day to day decisions and solve problem/s at work. The job holder should also be able to critically analyse the information gathered from different channels like current, voltage readings, observations made by helpers, etc. to identify the possible faults which can occur and take pro-active action	The job holder is expected to recall and demonstrate practical skills, which are routine and repetitive in a narrow range of application such as checking the integrity and working conditions of various components through inspection. Carrying out routine cleaning and maintenance activities to ensure long life and stability of SHP plant. The incumbent further analyses the fault prone areas by using standard techniques to prevent faults. Further, the incumbent refers to and uses defined rules in SOP manual and tools as per organization's guidelines to conduct various types of maintenance activities Since all the above mentioned professional skill are related to demonstrating practical skills, which are routine and repetitive in a narrow range and using appropriate rule and tool, the role qualifies for Level 4	4
Core skill	The individual is expected to exhibit effective communication skills by communicating clearly with the O&M Engineer and helpers and understanding the instructions given by the supervisors. Further, the individual is expected to perform respective record maintaining work and use basic arithmetic/ algebraic principles like summation, multiplication, etc. to compute resistance, voltages, etc. to identify common faults in the electrical equipment. The individual should also possess basic understanding of natural environment to understand the common faults and issues which can occur at the SHP plant	The job holder is expected to exhibit effective oral communication skills (including awareness of vernacular language) so as to understand the instructions of the supervisor as well as clearly instruct helpers while carrying out day to day maintenance activities. The job holder is also expected to possess reading and writing skills so as to read and understand equipment manuals, health and safety instructions, various signage and standard code and concepts well as well as maintain records as per organisation policies. The job holder is also expected to display basic arithmetic/ algebraic awareness to analyse and interpret the evaluation parameters of electrical equipment such as the standard current, voltage level, the accepted resistance levels for different components, etc. The incumbent must understand the social, political of	4

Title/Name of qualification/component: Small Hydro Power Plant Technician		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
		the local environment so as to communicate effectively with hydro project helpers who primarily belong to the surrounding regions and natural environment so as to identify common issues and faults which can affect the health of electrical parts in the SHP plant. Since all the above-mentioned core skills are related to exhibiting effective oral, written communication skills along with basic understanding of the arithmetic principles as well as understanding of the social, political and natural environment such as clarifying the client's understanding and expectation prior to commencement of treatment the role qualifies for Level 4	4
Responsibility	The individual is primarily responsible to gain knowledge about standard protocols and SOPs regarding the operation, testing and maintenance of a SHP plant. She/he is also expected to update him/herself with the SHP plant	The Small Hydro Power Plant technician is responsible for his/ her own work and learning. She/he is expected to update her/himself with the standard protocols and SOPs using the available equipment manuals, etc. She/he is also expected to have significant on the job learning about the equipment and their maintenance procedures. She/he works under some supervision but primarily carries out her/his day-to-day activities independently. Thus she/he can be placed at level 4	4

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	PCs/Laptops		
2	Internet with Wi-Fi (Min 2 Mbps Dedicated)		
3	Documents of standard operating procedures		
4	code of conduct and checklists		
5	Schedules/Manual		
6	pliers		
8	power drill		
9	screwdrivers		
10	spanner		
11	GPS		
12	Altimeters intake		
13	Power channel set up		
14	SHP plant model/photograph		
15	AC/DC Generator		
18	hydro turbine model		
19	Channel/pipe/tunnel systems		
20	Electric Arc welding/gas welding set up		
23	Crane pulley block		
24	firefighting system		
26	unit control switchboard		
27	scanners and transducers		
28	power cables		
29	batteries		
30	Inverters		
32	Clamp meter		
33	AC/DC motors, Synchronizer		
34	Transformer (Step up/down)		

Classroom Aids

The aids required to conduct sessions in the classroom are:

Marker, chart and visual aid, Pellet production flowchart, raw material supply chain flow chart, Schematics of Solar Domestic Product production plant;

Annexure: 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.	Virender Dogra Power Projects Pvt. Ltd. (Super Hydro)	Arpit Dogra	Director	315-16, Sahil Plaza, Dalhousie Road, Pathankot, Punjab – 145001, IN	9814630544	superhydro.c@gmail.com	
2.	Jala Shakti Limited	Auditya Yadlapati	Managing Director	Village Karian, Near Himachal Gramin Bank, P.O.Bharian, Tehsil & Distt. Chamba (H.P)-176310	9418023004	aditya@jalashakti.com	
3.	Abhijeet Techno Plast (I) Pvt Ltd.	Prajakta Morade	Dy. Manager HR & Admin	Plot No E57/E58, Ambad MIDC, Nashik 422010.	8484904045	technohrd@abhijeetplastics.co.in	
4.	KKK Hydro Power Ltd.	Pawan Kumar Kohli	Director	Baragran Road, PO-Patlikuhal, Tehsil-Manali, Dist-Kullu Himachal Pradesh	9810008537	kkkhpl@kkkhydropower.com	
5.	Sikkim Power Development Corporation	A R Nagesha	General Manager-Civil	31-A, NH-10, Near Old STNM Hospital, Gangtok-737101, Sikkim	9448282864	arnagesha.spdc@gmail.com	
6.	VRJ Infra Power Solutions	Vikash Shivaji Shinde	Proprietor	MIDC, Nashik 422010	9405600312	vrj.ips777@gmail.com	
7.	Suvidhi Industries	Kalpesh Gangwal	Proprietor	D-71, MIDC, Sinnar, distt-Nashik-422113	9423786294	suvudhi22@gmail.com	

8.	Innodust Marketing Pvt. Ltd.	Gourab Agrawal	Director	Plot No.A/63/1, Shaheed Nagar Bhubaneshwar-751007	7894412588	Innodust.marketing@gma.com	
9.	NS Power	Sunil K Sahoo	Proprietor	Plot No.A/65, Shaheed Nagar Bhubaneshwar-751007	9035079499	sales.nspower@gmail.com	
10	Fab Industries Pvt. Ltd.	Rupali G Shinde	Sr HR Executive	Vadivarhe, Nashik-422403	9226535526	rupali.shinde@fab360.in	
11	Uniparts India Ltd	R Anil Kumar	Recruitment Head	Plot no. 47, APIIC, APSEZ, Atchutapuram, Andhra Pradesh. Pin-531011	9705562559		
12	Mass N-ergy Private Limited	Muddasir Nazir Mir	CEO	Top Floor, Khidmat Complex Phase-Ii, Regal Lane, Residency Road, Srinagar-190001, UT Of Jammu & Kashmir	9971819988	massenergy@gmail.com	
13	Magpie Hydel Construction Operation Industries Private Limited	Nazir Ahmad Mir	MD	Top Floor, Khidmat Complex Phase-II, Regal Lane, Residency Road, Srinagar-190001, UT Of Jammu & Kashmir	9906612301	magpiehydel@gmail.com	
14	Rohan Rajdeep Hydro Power Projects Ltd.	Amol Ashok Khandekar	Project Engineer	Zulapewadi, Ajara, Dist-Kolhapur, MH	9623334472	rohanhydropower.chikotra@gmail.com	
15	Shri Tatyashaheb Kore Warana Sahkari Navshakti Nirman Sanstha Ltd.	Akshay Dilip Patil	Plant Incharge	Waranagar, Kolhapur	9421105755	akshay22869251@gmail.com	
16	Sanjay B Patil Jambre Hydro Power Plant	Sanjay D Yadege	Plant Incharge	Chandgad, Kolhapur	9511855015		
17	Vishwaj Energy Pvt Ltd.	Vaibhav V Chavan	Plant Incharge	Dhom-Balakawadi, Tal-Wai, Dist-Satara	9763133812	v.chavan1111@gmail.com	
18	Hydro Power Development Corporation of Arunachal	Er. Toko Onuj	CMD	Park View Apartment, Lower Niti Vihar, Itanagar-791111		cmdhpdcapl@gmail.com	

	Pradesh Ltd.						
19	Banglore Hydro Engineers and Consultants Pvt. Ltd.	Ravindra S Kashyap	MD	80-D, 12 th Cross, Girinagar 3 rd Phase, Avalahalli Extension, Bangalore-560085	9845501738	rsk@bhec.in	
20							

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☒ Theory/ Lectures - Imparting theoretical and conceptual knowledge	NA	NA
2	☒ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☒ Showing Practical Demonstrations to the learners		
4	☒ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☒ Tutorials/ Assignments/ Drill/ Practice		
6	☒ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☒ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: 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
2025-26	600	-	-	-	-	-
2026-27	500	-	-	-	-	-
2027-28	500	-	-	-	-	-

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
1	2022-23	-	-	-	-	-	-	-	-	-	-	-	-
1	2023-24	-	-	-	-	-	-	-	-	-	-	-	-
1	2024-25	-	-	-	-	-	-	-	-	-	-	-	-

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. NA

Content availability for previous versions of qualifications:

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

Languages in which Content is available: English

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☒ Theory/ Lectures - Imparting theoretical and conceptual knowledge	NA	NA
2	☒ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☒ Showing Practical Demonstrations to the learners		
4	☒ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☒ Tutorials/ Assignments/ Drill/ Practice		
6	☒ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☒ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: Detailed Assessment Criteria

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

NOS/Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
SGJ/Nxxx: Study components and layout of Small Hydro Power (SHP) Plant	<i>Estimate Small Hydro Plant (SHP) potential</i>	5	12	-	-
	PC1. illustrate basic working principles of small scale hydropower	1	2	-	-
	PC2. illustrate general layout of Small hydro Plant	1	2	-	-
	PC3. estimate SHP power generation potential	2	5	-	-
	PC4. outline water mills and pico hydro working principles	1	3	-	-
	<i>Outline functions of main components of SHP</i>	9	18	-	-
	PC5. describe main components of SHP linking to layout plan	1	2	-	-
	PC6. illustrate various sub components of civil structure and discuss their functions	2	4	-	-
	PC7. outline functions of various mechanical equipment used in the plant	1	2	-	-
	PC8. outline functions of electro-mechanical and electrical equipment used in the plant	1	2	-	-
	PC9. illustrate components of water mills and pico hydro	2	4	-	-
	PC10. compare small hydro plant, pico hydro plant and water mills	2	4	-	-
	<i>Outline critical points in water flow</i>	5	11	-	-
	PC11. classify different types of streams	1	2	-	-
	PC12. outline flow of water in a SHP station	1	2	-	-
	PC13. illustrate sub components of intake, power channel and tail race	1	2	-	-
	PC14. identify critical points in water flow for operation and maintenance of the Plant	2	5	-	-
	<i>Use measuring devices in SHP Plan</i>	5	10	-	-

	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	PC15. describe working principle of water flow measuring devices	1	2	-	-
	PC16. describe working principle of GPS, Altimeters and Total System	1	2	-	-
	PC17. demonstrate and use GPS, altimeters and total system for the measurements	3	6	-	-
	NOS Total	24	51	-	-

NOS/Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
SGJ/N0xxx: Inspect different components of Small Hydro Power (SHP) Plant	<i>Development of inspection schedule of various components of the Plant</i>	7	14	-	-
	PC1. identify components of the Plant to be inspected every day, once a week and every month	1	2	-	-
	PC2. develop inspection schedule for of various main components of the plant	1	2	-	-
	PC3. develop daily inspection route of the plant with daily components to be inspected	1	2	-	-
	PC4. develop weekly and monthly inspection route of the plant with components to be inspected	1	2	-	-
	PC5. develop annual inspection route of the plant with components to be inspected	1	2	-	-
	PC6. complete "reporting " format for daily, weekly monthly and annual inspections	1	2	-	-
	PC7. identify reporting hierarchy in case of noticing malfunctioning of any components during inspection	1	2	-	-
	<i>Inspection of Civil structure of the SHP plant</i>	7	14	-	-
	PC8. carry out inspection of diversion & intake works and report its status	1	2	-	-
	PC9. carry out inspection of channel /pipe/tunnel and report its status	1	2	-	-
	PC10. undertake inspection of Desilting Tank and report its status	1	2	-	-
	PC11. carry out inspection of Forebay and surge tanks and report its status	1	2	-	-
	PC12. examine Penstock, anchor block and saddles, branching and report its status	1	2	-	-
	PC13. carry out inspection of Power house building and report its status	1	2	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. examine Tail Race Channel and report its status	1	2	-	-
<i>Inspection of Hydro-Mechanical equipment of the SHP plant</i>	2	4	-	-
PC15. carry out inspection of Trash rake, gates, hoisting arrangements, valves and report its status	1	2	-	-
PC16. examine Penstock and related specials and report its status	1	2	-	-
<i>Inspection of Electro-Mechanical part of the SHP plant</i>	9	18	-	-
PC17. examine turbine and generators for physical parameters including vibration, etc. and report	1	2	-	-
PC18. examine drive system including belts, pulleys, speed increaser/gear box, etc. and report	1	2	-	-
PC19. examine Governors and OPU functioning and report its status	1	2	-	-
PC20. examine mechanical equipment auxiliaries including drainage system, HVAC, crane pulley block, firefighting system, compression system and cooling water system and report its status	1	2	-	-
PC21. examine functioning of hydroelectric generator including AVR and excitation system	1	2	-	-
PC22. examine functioning of control system including unit control switchboard, various meters, instruments, devices, scanners and transducers	1	2	-	-
PC23. examine functioning of Power transformer and Unit auxiliary transformers	1	2	-	-
PC24. examine functioning of protection system and other switchyard equipment including lighting protection, ground of switchyard equipment, Isolator, circuit breaker, load break switches, bus bars	1	2	-	-

	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	PC25. examine electrical auxiliary system including AC supply, AC and DC distribution board, LV switchgear, batteries, inverters, pumps, power cables and communication channels, etc.	1	2	-	-
	<i>Report preparation of Inspection</i>	1	2	-	-
	PC26. fill up different reporting formats to report system functioning	1	2	-	-
	NOS Total	26	52	-	-

NOS/Module Name					
	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
SGJ/N0xxx: Start and shut Small Hydro Power (SHP) Plant	<i>Starting Small Hydro Power Plant</i>	4	8	-	-
	PC1. illustrate standard operating conditions to start water flow system	1	2	-	-
	PC2. list out pre start conditions for SHP plant	1	2	-	-
	PC3. illustrate standard operating conditions to start turbine-generator unit (s) and parameters to be watched during running of unit	1	2	-	-
	PC4. illustrate standard operating procedure to synchronize Unit with grid	1	2	-	-
	<i>Normal Shut down of Small Hydro Power Plant</i>	1	2	-	-
	PC5. explain standard operating procedure for normal shut down of unit	1	2	-	-
	<i>Special shut down of Small Hydro Power Plant</i>	2	2	-	-
	PC6. describe standard operating procedure for special shut down of unit	1	1	-	-
	PC7. apply procedures of giving and returning shut downs	1	1	-	-
	<i>Emergency shut down of Small Hydro Power Plant</i>	1	2	-	-
	PC8. illustrate standard operation for emergency shut down	1	2	-	-
	NOS Total	8	14	-	-

NOS/Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
SGJ/N0xxx: Maintain Personal Health & Safety at project site	<i>Adopt safe practices at workplace</i>	11	19	-	-
	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority	2	3	-	-
	PC2. follow recommended safe practices in handling physical, chemical, electrical and fire hazards and risk	1	2	-	-
	PC3. use appropriate Personal Protective Equipment(PPE) for head, eye, hand, ear, face, body and fall protection specific to work condition	2	4	-	-
	PC4. follow safe practices when working at height and in confined space	1	1	-	-
	PC5. handle all required tools, tackles, materials and equipment safely	1	2	-	-
	PC6. identify expiry dates, wear and tear issues of specified equipment and accordingly inform supervisor and undertake corrective measures	1	2	-	-
	PC7. apply ergonomic principles wherever required	1	2	-	-
	PC8. use safety signs, labels, charts and notices at workplace	1	1	-	-
	PC9. identify work safety procedures and instructions for handling heavy components	1	2	-	-
	<i>Follow emergencies, rescue and first aid procedures</i>	4	4	-	-
	PC10. follow emergency and evacuation procedures in case of accidents, fires and natural calamities	1	1	-	-
	PC11. use appropriate fire extinguishers for different types of fire	1	1	-	-
	PC12. administer first aid to victim in case of various medical emergencies including bleeding, burns, choking, electric shock, cardiac arrest, etc.	1	1	-	-

	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	PC13. use correct method to move injured person during an emergency	1	1	-	-
	<i>Follow good housekeeping practices and infection control guidelines</i>	4	8	-	-
	PC14. follow recommended personal hygiene, workplace hygiene and sanitation practices	1	2	-	-
	PC15. clean and disinfect all material, tools and supplies before and after use	1	2	-	-
	PC16. report immediately to concerned authorities regarding sign and symptoms of illness of self and other colleagues	1	2	-	-
	PC17. follow processes specified for disposal of hazardous waste	1	2	-	-
	NOS Total	19	31	-	-

NOS/Module Name					
SGJ/N0xxx: Study electro-mechanical system of Small Hydro Power plant	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	<i>Hydro generators, AVR and excitation system</i>	14	6	-	-
	PC1. discuss Hydroelectric generator (Induction and Synchronous)	4	1	-	-
	PC2. introduce function of AVR and Excitation systems	3	1	-	-
	PC3. dry out & test generators before commissioning	3	1	-	-
	PC4. maintain and inspect hydroelectric generators and routine testing at site	4	3	-	-
	<i>Control System</i>	15	15	-	-
	PC5. discuss control circuitry configurations	1	-	-	-
	PC6. test control system sequence	4	4	-	-
	PC7. test various meters, instruments, devices, scanners, transducers, etc.	4	4	-	-
	PC8. repair instrument, meters and other electrical devices	4	5	-	-
	PC9. discuss Unit control switchboards: configurations and testing	2	2	-	-
	<i>Transformers for SHP stations</i>	10	10	-	-
	PC10. discuss power transformer: basics and applied concepts	2	-	-	-
	PC11. discuss factory and field tests of power transformers	2	3	-	-
	PC12. maintain power transformers	2	4	-	-
	PC13. discuss Unit auxiliary transformers: basics and applied concepts	2	-	-	-
	PC14. dry out & test transformers at site	2	3	-	-
	<i>Protection system and other switchyard equipment</i>	20	20	-	-

SGJ/N0613: Study hydro-mechanical and civil system of Small Hydro Power Plant	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	<i>Hydro-Mechanical Equipment</i>	5	6	-	-
	PC1. discuss Penstock and related specials (air vent, bends, expansion joints, reducer, matching flanges, bulkhead, piezo metric connections, branching)	3	4	-	-
	PC2. illustrate trash rake, gates, hoisting arrangements and valves	2	2	-	-
	<i>Hydro-turbine & governing system</i>	11	20	-	-
	PC3. categorize types of turbines and their components (runner, casing nozzle/guide vanes, regulating mechanism, shaft, bearings)	7	12	-	-
	PC4. introduce drive systems: belts and pulleys, speed increaser/gear box etc.	2	3	-	-
	PC5. introduce governors, OPU and their functionality	2	5	-	-
	<i>Mechanical equipment Auxiliaries</i>	6	8	-	-
	PC6. discuss drainage and dewatering pumps	1	2	-	-
	PC7. discuss HVAC (heating, ventilation and Air conditioning)	1	1	-	-
	PC8. discuss Equipment Handling Devices (crane, pulley block)	1	2	-	-
	PC9. discuss compressors and compressed air system	1	1	-	-
	PC10. discuss cooling water system	1	1	-	-
	PC11. discuss fire fighting system	1	1	-	-
	<i>Abnormality in the mechanical components</i>	2	4	-	-
	PC12. discuss vibrations and noise in mechanical components	1	2	-	-
	PC13. discuss overheating host motors	1	2	-	-
	<i>Maintenance of mechanical components</i>	12	21	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. discuss dismantling of hydro mechanical equipment	3	6	-	-
PC15. identify and rectify defects	3	5	-	-
PC16. list out tapered locking sleeves and tapered adapter sleeves	3	5	-	-
PC17. explain bearing fit and shaft alignment etc.	3	5	-	-
<i>Civil work components and sizing</i>	17	18	-	-
PC18. discuss diversion and intake works	2	2	-	-
PC19. measure discharge	1	2	-	-
PC20. measure sediments	1	1	-	-
PC21. discuss channel /pipe/tunnel	3	2	-	-
PC22. discuss Desilting Tank	2	2	-	-
PC23. discuss Forebay and surge tanks	2	3	-	-
PC24. discuss Penstock, anchor block and saddles, branching	3	3	-	-
PC25. discuss power house building	2	2	-	-
PC26. discuss Tail Race Channel	1	1	-	-
<i>Maintenance of civil works</i>	9	11	-	-
PC27. discuss application of construction material in maintenance	2	2	-	-
PC28. discuss different SHP plant construction method	2	2	-	-
PC29. discuss quality control	1	2	-	-
PC30. discuss rate and cost estimate	2	3	-	-
PC31. measure and check quantities	2	2	-	-
NOS Total	62	88	-	-

DGT/VSQ/N0101: Employability Skills	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	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
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: 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 SDSM/SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME)
- Question papers created by the SME verified by the other subject Matter Experts
- Questions are mapped with NOS and PC
- Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
- Assessor must be ToA certified & trainer must be ToT Certified

- Assessment agency must follow the assessment guidelines to conduct the assessment

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location

- Center photographs with signboards and scheme specific branding
- Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
- Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos

5. Method of verification or validation:

- Surprise visit to the assessment location
- Random audit of the batch
- Random audit of any candidate

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored
- Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
- Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

On the Job:

OJT Monitoring Report

- As in Green Jobs Sector, reproducing the evidence for assessment is not feasible due to constraints like cost, confidentiality and controlled environment, every
- Apprentice is required to record the evidences performed during the OJT and the same gets authorized by his/her supervisor.
- The evidence recording is done in a structured monitoring report, termed as OJT Monitoring report.
- During the OJT, every trainee is required to fill the OJT monitoring report which is required to be signed by his/her supervisor.
- Towards the end of OJT period these reports are submitted with the HR department of company
- These duly submitted reports are then verified by an Industry nominated assessor for verification of evidence.

Theory, Practical & Viva:

- Scope – Is used to test the knowledge and understanding and skills acquired during the OJT as well as to conform the OJT monitoring report.
- Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested, which is also required for the QP.

- Tools – The assessment's questions should be aligned with the Qualification Pack, covering the PCs. There will be summative assessment at

the end of the OJT.

- Method – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions for Viva,

- MCQ for the theory and performing QP related operations for practical. Different questions in theory, practical and viva are included to test relevant PCs from
- the QP
- Analysis – Assessor draws a spectrum of ready answers to be expected from trainee for Viva. This reduces effect of subjectivity of the assessor. Comparative
- Quality of trainees within a batch or different institutes can be gauged. The skill is gauged by observing the practical work.

Execution of OJT Assessment:

- HR department hands over the individual OJT monitoring report with Industry nominated assessor and schedules an assessment meeting for each trainee.
- Industry nominated assessor assesses each trainee based on OJT monitoring report, viva on each PC and also takes into account attendance of each trainee towards the end of the OJT period.
- The OJT marks are compiled for each NOS by the Industry nominated assessor and submitted with HR department of company.
- The OJT assessment results are then sent to SCGJ by HR department of company in a sealed envelope for compiling the assessment results in case of offline assessment.

Annexure: 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: Annexure: Career Progression and OM

