



## QUALIFICATION FILE – Micro Credentials

### Overview of Instrumentation and Control for Green Hydrogen Plant

Public  Private

Upskilling  Dual/Flexi Qualification  For ToT  For ToA

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

**NCrF/NSQF Level: 6**

**Submitted By:**

**Skill Council for Green Jobs**

**Chief Executive Officer**

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## Table of Contents

Section 1: Basic Details .....	3
Section 2: Training Related .....	6
Section 3: Assessment Related .....	7
Section 4: Evidence of Need of the Micro Credential .....	8
Section 5: Annexure Check List.....	10
Annexure: Evidence of Level .....	10
Annexure: Learning Outcomes and Assessment Criteria .....	12
Annexure: Assessment Strategy .....	13
Annexure: Tools and Equipment .....	14
Annexure: Industry Validations Summary .....	15
Annexure: Training Details .....	16
Annexure: Blended Learning .....	16
Annexure: Acronym and Glossary .....	17

## Section 1: Basic Details

<b>1.</b>	<b>Micro Credential-Qualification Name</b>	<b>Overview of Instrumentation and Control for Green Hydrogen Plant</b>													
<b>2.</b>	<b>Sector/s</b>	<b>Environmental Science</b>													
<b>3.</b>	<b>National Qualification Register (NQR) Code &amp; Version</b> <i>(Will be issued after NSQC approval.)</i>	NM-06-ES-02254-2024-V1-SCGJ	<b>4. NCrF/NSQF Level: 6</b>												
<b>5.</b>	<b>Brief Description of the Micro Credential</b>	<p>This micro credential is designed to undertake trainings on instrumentation &amp; process control operations of Green Hydrogen/Green Ammonia production system, as per applicable norms and standards.</p> <p>Trainees will develop an understanding of interpreting equipment datasheets and drawings like piping and instrumentation and accordingly will be responsible for incorporating critical design and engineering aspects vital for guaranteeing the safe operation of green hydrogen production facilities.</p>													
<b>6.</b>	<b>Eligibility Criteria for Entry for Students/Trainee/Learner/Employee</b>	<p><b>a. Entry Qualification &amp; Relevant Experience</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S. No.</th> <th style="width: 60%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 35%;">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Pursuing 4th year BE/BTech /UG (Hon) (Instrumentation/ Chemical or in a related discipline)</td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td>Completed B.E/B.Tech /UG(Hon) (Instrumentation/ Chemical or in a related discipline)</td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td>Completed 3-year Under Graduate Degree (B.Sc. in Chemistry)</td> <td>with 1.5 years of experience in hydrogen or other process gas industry or in instrumentation &amp; control function across relevant industry sector</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Pursuing 4th year BE/BTech /UG (Hon) (Instrumentation/ Chemical or in a related discipline)		2	Completed B.E/B.Tech /UG(Hon) (Instrumentation/ Chemical or in a related discipline)		3	Completed 3-year Under Graduate Degree (B.Sc. in Chemistry)	with 1.5 years of experience in hydrogen or other process gas industry or in instrumentation & control function across relevant industry sector
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		4	Previous relevant Qualification of NSQF Level 5 with 3 years of experience in hydrogen, other process gas industry and instrumentation across relevant industry sector
		5	Previous relevant Qualification of NSQF Level 5.5 with 1.5 years of experience in hydrogen, other process gas industry and instrumentation across relevant industry sector
		<b>Age: 20 years</b>	
<b>7.</b>	<b>Credits Assigned to this Qualification, Subject to Assessment</b> <i>(as per National Credit Framework (NCrF))</i>	1	<b>8. Common Cost Norm Category (I/II/III)</b> <i>(wherever applicable): I</i>
<b>9.</b>	<b>Any Licensing Requirements/ Pre-requisites for Undertaking Training</b> <i>(wherever applicable)</i>	Not Applicable	
<b>10.</b>	<b>Expected Outcomes of the Micro Credential</b>	<p><b>Terminal learning outcomes are:</b></p> <p>Outcome 1: Discuss the fundamentals of green hydrogen production, storage, distribution and applications across concerned sectors in India</p> <p>Outcome 2: Discuss the key aspects of process control including safe operation, efficient power to hydrogen conversion and gas purity control etc.</p> <p>Outcome 3: Discuss key Safety Measures for Hydrogen production and handling and along with performing safety Risk assessment for hydrogen production</p> <p>Outcome 4: Discuss the Integration of sensors and control instruments in green hydrogen plant</p>	

		Outcome 5: Discuss how to ensure regulatory and safety compliance in green hydrogen plant, as per the concerned norms and standards												
11.	<b>Training Duration by Modes of Training Delivery</b> ( <i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i> )	<input checked="" type="checkbox"/> Offline Only <input type="checkbox"/> Online Only <input type="checkbox"/> Blended <table border="1"> <thead> <tr> <th>Training Delivery Mode</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>16:00</td> <td>14:00</td> <td>30:00</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for Details)</p>	Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	16:00	14:00	30:00	Online			
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12.	<b>Assessment Criteria</b>	<table border="1"> <thead> <tr> <th>Theory (Marks)</th> <th>Practical (Marks)</th> <th>Project (Marks)</th> <th>Viva (Marks)</th> <th>Total (Marks)</th> <th>Passing %age</th> </tr> </thead> <tbody> <tr> <td>60</td> <td>40</td> <td></td> <td></td> <td>100</td> <td>70</td> </tr> </tbody> </table>	Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age	60	40			100	70
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60	40			100	70									
13.	<b>Is the Qualification Amenable to Persons with Disability</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If “Yes”, specify applicable type of Disability:  <input checked="" type="checkbox"/> Acid Attack <input checked="" type="checkbox"/> Dwarfism Victims												
14.	<b>How participation of women will be encouraged?</b>	<p>A. Tailored Outreach Initiatives 1. Targeted campaigns highlighting the benefits of women's participation 2. Collaboration with women-focused organizations and networks for effective outreach and mobilisation</p> <p>B. Inclusive Training Program Design 1. Customization of training content to appeal to diverse backgrounds and experiences 2. Establishment of mentorship programs connecting experienced women professionals with trainees</p>												
15.	<b>Other Indian Languages in which the Micro Credential will be implemented.</b>	<b>Not Applicable</b>												

16.	Is similar Micro Credential Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:	
17.	Name and Contact Details Submitting / Awarding Body SPOC	<b>Name:</b> Dr. Praveen Saxena <b>Email:</b> <a href="mailto:ceogreenjobs@gmail.com">ceogreenjobs@gmail.com</a> <b>Contact No.:</b> 9871119101 <b>Website:</b> <a href="https://sscgi.in/">https://sscgi.in/</a>	
18.	NSQC Approval Date: 15.03.2024	19. Validity Duration: 3 years	20. Next Review Date: 14.03.2027

## Section 2: Training Related

1.	<b>Trainer's Qualification and experience in relevant sector (in years)</b> <i>(as per requirement and NCVET guidelines)</i>	<p>Any Post Graduate in science and engineering with at least 2 Years of experience in Green Hydrogen / Oil &amp; Gas / Petrochemical / Refineries/other energy sector managing instrumentation, control &amp; safety system</p> <p>Specialization: In-depth knowledge of green hydrogen process instrumentation &amp; control system along with Strong understanding of green hydrogen production technologies, safety and compliances. Knowledge of relevant regulations, process control, safety standards, and environmental considerations. Training: Experience in delivering training programs on Green Hydrogen system</p> <p>Or</p> <p>Any Engineering or suitable science Graduate with at least 3 Years of experience in Green Hydrogen / Oil &amp; Gas / Petrochemical / Refineries/other energy sector managing instrumentation, control &amp; safety system</p> <p>Specialization: In-depth knowledge of green hydrogen projects and Strong understanding of green hydrogen production technologies and processes. Familiarity with instrumentation control and safety of hydrogen infrastructure. Knowledge of relevant regulations, safety standards, and environmental considerations. Training: Experience in delivering training programs on Green Hydrogen system</p>
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		Or <b>Training Experience: Certified under relevant Craft Instructor Training Scheme (CITS) course</b>
2.	<b>Master Trainer’s Qualification and experience in relevant sector (in years) (as per requirement and NCVET guidelines)</b>	Any Post Graduate in science and engineering with at least 3 Years of experience in Green Hydrogen / Oil & Gas / Petrochemical / Refineries/other energy sector managing instrumentation, control & safety system Specialization: In-depth knowledge of green hydrogen process instrumentation & control system along with Strong understanding of green hydrogen production technologies, safety and compliances. Knowledge of relevant regulations, process control, safety standards, and environmental considerations. Training: Experience in delivering training programs on Green Hydrogen system
3.	<b>Tools and Equipment Required for Training</b>	<input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> (If “Yes”, details to be provided in Annexure)

### Section 3: Assessment Related

1.	<b>Assessor’s Qualification and experience in relevant sector (in years) (as per requirement and NCVET guidelines)</b>	Any Post Graduate in science and engineering with at least 3 Years of experience in Green Hydrogen / Oil & Gas / Petrochemical / Refineries/other energy sector managing instrumentation, control & safety system Specialization: In-depth knowledge of green hydrogen process instrumentation & control system along with Strong understanding of green hydrogen production technologies, safety and compliances. Knowledge of relevant regulations, process control, safety standards, and environmental considerations. Training: Experience in delivering training programs on Green Hydrogen system
2.	<b>Proctor’s Qualification and experience in relevant sector (in years) (as per requirement and NCVET guidelines)</b>	Any Post Graduate in science and engineering with at least 3 Years of experience in Green Hydrogen / Oil & Gas / Petrochemical / Refineries/other energy sector managing instrumentation, control & safety system Specialization:

		In-depth knowledge of green hydrogen process instrumentation & control system along with Strong understanding of green hydrogen production technologies, safety and compliances. Knowledge of relevant regulations, process control, safety standards, and environmental considerations. Training: Experience in delivering training programs on Green Hydrogen system
3.	<b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per requirement and NCVET guidelines)</b>	Any Post Graduate in science and engineering with at least 5 Years of experience in Green Hydrogen / Oil & Gas / Petrochemical / Refineries/other energy sector managing instrumentation, control & safety system Specialization: In-depth knowledge of green hydrogen process instrumentation & control system along with Strong understanding of green hydrogen production technologies, safety and compliances. Knowledge of relevant regulations, process control, safety standards, and environmental considerations. Training: Experience in delivering training programs on Green Hydrogen system
4.	<b>Assessment Mode (Specify the assessment mode)</b>	<b>Mode:</b> <input type="checkbox"/> Online Only <input checked="" type="checkbox"/> Offline Only <input type="checkbox"/> Blended
5.	<b>Tools and Equipment Required for Assessment</b>	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

## Section 4: Evidence of Need of the Micro Credential

As per the NCVET Guidelines for evidence of need, provide the required Annexure/Supporting documents.

1.	<p><b>Government /Industry initiatives/ requirement (Yes/No):</b> Yes</p> <p>Government of India has launched <a href="#">National Green Hydrogen Mission</a> in Jan 2023 with an overarching objective To make India the Global Hub for production, usage and export of Green Hydrogen and its derivatives. This will contribute to India's aim to become Aatmanirbhar through clean energy and serve as an inspiration for the global Clean Energy Transition. The Mission will lead to significant decarbonisation of the economy, reduced dependence on fossil fuel imports, and enable India to assume technology and market leadership in Green Hydrogen."</p>
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	<p>The initial outlay for the Mission will be Rs.19,744 crore, including an outlay of Rs.17,490 crore for the SIGHT programme, Rs.1,466 crore for pilot projects, Rs.400 crore for R&amp;D, and Rs. 388 crore towards other Mission components.</p> <p>The Mission will result in the following likely outcomes by 2030:</p> <ul style="list-style-type: none"> <li>• Development of green hydrogen production capacity of at least 5 MMT (Million Metric Tonne) per annum with an associated renewable energy capacity addition of about 125 GW in the country</li> <li>• Over Rs. Eight lakh crore in total investments</li> <li>• Creation of over Six lakh jobs</li> <li>• Cumulative reduction in fossil fuel imports over Rs. One lakh crore</li> <li>• Abatement of nearly 50 MMT of annual greenhouse gas emissions</li> </ul> <p>Green hydrogen, heralded as a key player in energy transition requires substantial investments for successful implementation. The expanding market for green hydrogen presents significant investment and jobs prospects. The significance of instrumentation, control &amp; safety in the context of green hydrogen/green ammonia production is underscored by its ability to fulfill crucial functions in illustrating essential design and engineering controls necessary for sustaining safe operations within hydrogen plants. The job holder performs crucial functions in comprehending engineering deliverables, including interpreting drawings and documents such as datasheets for equipment and instruments, as well as piping and instrumentation diagrams. Integration of Key design and engineering considerations that are crucial for ensuring the safety of hydrogen production facilities are also a key job function. Furthermore, instrumentation and control are instrumental in demonstrating the effective utilization of a diverse range of testing instruments and equipment, facilitating accurate measurement, calibration, and analysis processes. In essence, these functions highlight the indispensable nature of instrumentation and control in ensuring the safety, efficiency, and precision of operations in the realm of green hydrogen.</p>
2.	Number of Industry validation provided: <a href="#">5, Annexure: Industry Validations Summary (Copy attached)</a>
3.	<p>Estimated number of people to be trained: Annexure: Training Details</p> <p>Estimating the workforce requirements across process requirements in instrumentation &amp; control functions in green hydrogen projects in India involves considering multiple factors such as project scale, associated investments, supporting policies, regulations, and industry growth projections etc. The National Green Hydrogen Mission (NGHM) envisions the creation of 6 lakh jobs in the Green Hydrogen sector by 2030. It is estimated that for a mid size Green hydrogen facility approx. 8-10 skilled resources who can meet the requirement for handling instrumentation, control and safety process shall be required. Accordingly, up to 25000 skilled engineers and other skilled operators shall be required by the industry in the next 5-6 years in line with the announcements for meeting the NGHM targets.</p>

	This Micro Credential serves as a foundational asset for supporting the skill requirement for workers in instrumentation and control functions of green hydrogen/Green ammonia projects in the country, thereby contributing to deployment and success of concerned projects. Tailored specifically for key stakeholders like project developers and plant operators; this program addresses the unique needs of each group. It is expected that at least a total of 1000 trainees shall be trained and certified through this micro credential through different training modes.
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## Section 5: Annexure Check List

*Specify Annexure Number and Name.*

1.	<b>Annexure:</b> NCrF/NSQF level justification based on NCrF Level/NSQF descriptors <i>(Mandatory)</i>	Annexure: Evidence of Level
2.	<b>Annexure:</b> Learning Outcomes and Assessment Criteria <i>(Mandatory)</i>	Annexure: Learning Outcomes and Assessment Criteria
3.	<b>Annexure:</b> Assessment Strategy <i>(Mandatory)</i>	<i>Annexure: Assessment Strategy</i>
4.	<b>Annexure:</b> List of tools and equipment relevant for qualification <i>(Mandatory – Except in case of online course)</i>	<i>Annexure: Tools and Equipment</i>
5.	<b>Annexure:</b> Blended Learning <i>(Mandatory in case selected mode of delivery is “Blended Learning”)</i>	<i>Not Applicable</i>
6.	<b>Annexure:</b> Acronym and Glossary <i>(Optional)</i>	<i>Annexure: Acronym and Glossary</i>

### Annexure: 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		In the dynamic landscape of green hydrogen projects, the demand for	6

<b>Knowledge/Process</b>	Advanced knowledge with critical understanding of emerging developments. A capable expert with extensive knowledge, critical thinking, and application of technology to specialized fields while pursuing continuous self-development. Has awareness and knowledge of the emerging and futuristic developments and issues in the chosen fields of technology/ skills/ job role.	instrumentation control and safety engineers is underscored by the prerequisite for advanced knowledge in a multidisciplinary domain. These professionals are entrusted not only with a good technical understanding of handling the instrumentation and control requirements of various process operations in green hydrogen production and safety but also with a cross-disciplinary proficiency that spans various interconnected fields. Therefore it is pegged at level 6.	
<b>Professional and Technical Skills/ Expertise</b>	Wide range of cognitive and practical skills required to create innovative and feasible solutions to complex problems and situations in uncertain environment	Instrumentation control and safety engineers must possess a diverse set of cognitive and practical skills to navigate the intricacies of their role and perform work functions within the challenging environments of green hydrogen projects. On a cognitive level, they need the ability to analyze complex problems, think critically, and strategize effective solutions, in line with the concerned safety and related protocol This includes a good understanding of technology, interdisciplinary knowledge, and the capacity to adapt swiftly to situations. Practical skills are equally crucial, encompassing hands-on expertise in utilizing various instrumentation tools and technologies, as well as the ability to implement safety protocols effectively. Hence it is pegged at level 6	6
<b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b>	<ul style="list-style-type: none"> <li>Highly skilled professional with cross-cultural competency, strategic ideation, time management, and leadership abilities for excellence</li> </ul>	Instrumentation control and safety engineers in green hydrogen systems must possess a diverse skill set that extends beyond technical expertise. Effective mentoring is crucial, as these engineers often play a role in guiding and developing their team members. People management skills are essential for fostering a collaborative and productive work environment, ensuring that each team member contributes optimally to the project. The ability to listen actively is vital, facilitating clear communication and a deeper understanding of project requirements. Delegation skills come into play as engineers coordinate various tasks within the team, ensuring efficient and streamlined project execution and hence it is pegged at 6	6

<b>Broad Learning Outcomes/Core Skill</b>	<ul style="list-style-type: none"> <li>Applies advance theoretical knowledge and specialized professional and technical skills involving complex variable environment and contexts</li> </ul>	instrumentation control and safety work function in green hydrogen systems operate at the intersection of advanced theoretical knowledge and specialized technical skills. Their ability to apply these competencies in complex, variable environments is pivotal to the success and safety of green hydrogen projects, hence pegged at 6	6
<b>Responsibility</b>	<ul style="list-style-type: none"> <li>Is responsible for managing a bigger independent unit in concerned project</li> </ul>	The job holder will Manage and supervise the intricate instrumentation and control systems, ensuring they operate cohesively to achieve the goals of projects safely, hence it is pegged at level 6	6

## Annexure: Learning Outcomes and Assessment Criteria

Detailed learning outcomes and assessment criteria for the qualification are as follows:

S. No.	Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
1.	Module 1: Overview of the Technology and business landscape for Green Hydrogen	15	10		
2.	Module 2: Analyse Instrumentation and control systems to monitor and control the process variables within a green hydrogen plant	15	10		
3.	Module 3: Analyse Safety considerations for Hydrogen production and usage	15	10		
4.	Module 4: Explore instrumentation, control and safety consideration for handling Green Hydrogen	15	10		
<b>Total Marks</b>		<b>60</b>	<b>40</b>		

## 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/SID or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SCGJ
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SCGJ monitors the assessment process & records

### 2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SID
- 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 MCr
- 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

## Annexure: Tools and Equipment

### List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Computers with Internet connectivity	Standard	10
2	Instrumentation & Control drawings and material data sheet	Standard	1
3	Instrumentation and control plant Checklist and SOP	standard	1

**Classroom Aids:**

The aids required to conduct sessions in the classroom are:

1. Laptops,
2. White boards, Projectors
3. Microsoft office software

### Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	GREENSTAT Hydrogen India Pvt. Ltd	Dr. J.P.Gupta	Managing Director	Delhi	9810141635	<a href="mailto:jglobalconsultinggroup@gmail.com">jglobalconsultinggroup@gmail.com</a>	
2	Om Sai Solar Power	Mr. Rajendra Singh	Director	Noida	9999596127	<a href="mailto:Omsaisolarpowersystem12@gmail.com">Omsaisolarpowersystem12@gmail.com</a>	
3	Danao Green Tech Pvt. Ltd.	Sanjay Danao	Director	Nagpur	9545648496	<a href="mailto:director@danao.in">director@danao.in</a>	
4	Solar Tech Saarthi Pvt. Ltd.	Lucky Aggarwal	MD	Delhi	9711851306	<a href="mailto:solarsaarthi@gmail.com">solarsaarthi@gmail.com</a>	
5	Innodust Marketing Pvt. Ltd.	Gourab	CEO	Bhubaneswar	7894412588	<a href="mailto:Gourab.innodust@gmail.com">Gourab.innodust@gmail.com</a>	

## Annexure: Training Details

### Training Projections:

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2024-25	250	50	10
2025-26	250	50	10
2026-27	500	100	20

Data to be provided year-wise for next 3 years.

## 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	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	Not Applicable	Not Applicable
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners	Not Applicable	Not Applicable
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners	Not Applicable	Not Applicable
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Not Applicable	Not Applicable
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	Not Applicable	Not Applicable
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Not Applicable	Not Applicable
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship	Not Applicable	Not Applicable

## 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
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

### Glossary

Term	Description
<b>Qualification</b>	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
<b>Qualification File</b>	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.
<b>Sector</b>	A grouping of professional activities based on their main economic function, product, service or technology.