



QUALIFICATION FILE

EV Charging Installation Technician

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship
☐ Upskilling ☐ Dual/Flexi Qualification For ToT ☐ For ToA

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

NCrF/NSQF Level: 4.5

Submitted By:

EIACP Cell, Ministry of Environment Forest and Climate Change (MoEFCC)

and

Skill Council for Green Jobs

Chief Executive Officer

CBIP Building, Malcha Marg,

Chanakypuri, New Delhi – 110021

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Contents

Contents	2
Section 1: Basic Details	3
Section 2: Module Summary	6
NOS/s of Qualifications	7
Mandatory NOS/s:	7
Assessment - Minimum Qualifying Percentage	7
Section 3: Training Related	8
Section 4: Assessment Related	8
Section 5: Evidence of the need for the Qualification	9
Section 6: Annexure & Supporting Documents Check List	10
Annexure 1: Evidence of Level	11
Annexure 2: Tools and Equipment (Lab Set-Up)	12
Annexure 3: Industry Validations Summary	13
Annexure 4: Training & Employment Details	16
Annexure 5: Detailed Assessment Criteria	17
Annexure 6: Blended Learning	27
Annexure 7: Assessment Strategy	28
Annexure 8: Acronym and Glossary	30
Annexure 9: Career Progression and OM	31

Section 1: Basic Details

1.	Qualification Name	EV Charging Installation Technician																
2.	Sector/s	Renewable Energy																
3.	Type of Qualification: ☒ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: QG-4.5-ES-04259-2025-V1-SCGJ & Version 1	Qualification Name of existing/previous version: NA															
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA																
5.	National Qualification Register (NQR) Code & Version	QG-4.5-ES-04259-2025-V1-SCGJ & Version 1	6. NCrf/NSQF Level: 4.5															
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other)	Certificate																
8.	Brief Description of the Qualification	The EV Charging Installation Technician qualification provides learners with the knowledge and skills to manage the complete lifecycle of EV charging infrastructure—covering planning, installation, operation, and maintenance. The program includes training in EV science, relevant policies, digital tools like software-based charging and GPS mapping, as well as site readiness and safety protocols. Participants will be equipped to lead teams, ensure efficient station operations, and support the growth of India's EV ecosystem. This Qualification will support EV industries, by providing skilled workers for management of EV charging infrastructure as Charging Station Supervisors. EV industry has rolled down several EV models in 2Wheeler, 3-Wheeler and 4-Wheeler segments and have already put significant charging infrastructure in many Indian cities.																
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>UG Certificate or equivalent</td> <td>with 1.0 Years of relevant experience in electrical, mechanical, I&C, power sector.</td> </tr> <tr> <td>2..</td> <td>12 grade pass with (Science) Stream</td> <td>with 1.5 Years of relevant experience in electrical, mechanical, I&C, power sector.</td> </tr> <tr> <td>3.</td> <td>10th Grade Pass</td> <td>with 3-year relevant experience in electrical, mechanical, I&C, power sector</td> </tr> <tr> <td>4.</td> <td>Previous relevant Qualification of NSQF Level 3.5</td> <td>With 1.5-years relevant experience in electrical, mechanical, I&C, power sector</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	UG Certificate or equivalent	with 1.0 Years of relevant experience in electrical, mechanical, I&C, power sector.	2..	12 grade pass with (Science) Stream	with 1.5 Years of relevant experience in electrical, mechanical, I&C, power sector.	3.	10th Grade Pass	with 3-year relevant experience in electrical, mechanical, I&C, power sector	4.	Previous relevant Qualification of NSQF Level 3.5	With 1.5-years relevant experience in electrical, mechanical, I&C, power sector
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		5.	Previous relevant Qualification of NSQF Level 3	With 3-years relevant experience in electrical, mechanical, I&C, power sector																			
10	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	15	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>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>240 hours with Employability Skills</td> <td>150</td> <td>60</td> <td></td> <td>450</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)	240 hours with Employability Skills	150	60		450	Online					
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Online																							
		(Refer Blended Learning Annexure for details)																					
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/ 3123.0400																					
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Vertical Progression: Manager-EVSE																					
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	☐ 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	Selection of the participants will be done as per the eligibility criteria without any gender bias. Due to linkages with industries and creative potential for jobs in this field, it will promote more women participation in the course.	
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☐ No All module except employability skills	
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: Mr. Arpit Sharma Email: ceo@sscgi.in Contact No.: 9899505533 Website: https://sscgi.in/	
23.	Final Approval Date by NSQC: 2025-05-08	24. Validity Duration: 3 years	25. Next Review Date: 07-05-2028

Section 2: Module Summary

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.	Introduce Basics of EV Science and Impact on Low Carbon Transport	SGJ/N4079	core	4.5	1	30	0	-	-	30	50	0	-	-	50	10
2.	Demonstrate EV Charging through Computer/Mobile Applications	SGJ/N4080	core	4.5	1	15	15	-	-	30	20	30	-	-	50	10
3.	Introduce Policy and Regulatory Ecosystem for Electric Vehicle Charging Stations	SGJ/N4081	core	4.5	1	30	0	-	-	30	50	0	-	-	50	10
4.	Perform Pre-Installation Planning and Site Readiness for EV Charging Infrastructure	SGJ/N4082	core	4.5	1	15	15	-	-	30	23	27	-	-	50	10
5.	Perform Erection and Installation of EV Charging Stations	SGJ/N4083	core	4.5	2	30	30	-	-	60	20	30	-	-	50	10
6.	Conduct Testing and Commissioning of EV Charging Stations	SGJ/N4084	core	4.5	2	30	30	-	-	60	30	20	-	-	50	10
7.	Introduce GPS Mapping and Explain Its Importance for EV Charging	SGJ/N4085	core	4.5	1	15	15	-	-	30	30	20	-	-	50	10
8.	Operate and Maintain EV Charging Station Efficiently	SGJ/N4086	core	4.5	2	30	30	-	-	60	60	40	-	-	100	10

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)
9.	Follow Basic Health and Safety Practices in EV Charging Station Operations	SGJ/N4087	core	4.5	1	15	15	-	-	30	30	20	-	-	50	10
10.	Employability Skills (30 Hours)	DGT/VSQ/N0101	Non core	2	1	30	-	-	-	30	20	30	-	-	50	10
11.	On the Job Training			4.5	2	-	-	60	-	60	-	-	-	-		
Duration (in Hours) / Total Marks					15	240	150	60		450	333	217			550	100

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**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) <i>(as per NCVET guidelines)</i>	B.Sc./M.Sc./ B.Tech /M.Tech Electronics or equivalent, Minimum of 2 years of experience in relevant field after TOT certification.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	M.Sc. / B.Tech/M.Tech Electronics or equivalent, Minimum of 3years of experience in relevant field after TOT certification.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	Not Applicable

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	B.Sc./M.Sc./ B.Tech /M.Tech Electronics or equivalent, Minimum of 3 years of experience in relevant field after TOT certification.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	M.Sc. / B.Tech/M.Tech Electronics or equivalent, Minimum of 4 years of experience in relevant field after TOT certification.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	M.Sc. / B.Tech/M.Tech Electronics or equivalent, Minimum of 5 years of experience in relevant field after TOT certification.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Online and offline both
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☒ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

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 The automobile sector contributes 7.1 per cent to India's GDP, and is now on the brink of a major Electric vehicle (EV) revolution. EVs are the future of transportation as they are eco-friendly alternative to fossil fuel-based automobile industry. EVs offer a plethora of advantages such as low maintenance cost, long life expectancy, and many more. With the demand for EVs set to reach 102 million units between 2021 and 2030, the next generation of India's workforce will have to be skilled in the sector while the existing workforce will have to up-skill themselves to remain relevant and competitive in the future. Original Equipment Manufacturers (OEMs) and automakers have grappled with issues such as battery life and charging infrastructure. While we have made giant strides in addressing these problems, a major issue that needs attention is the lack of a skilled workforce that can design, develop, and test EVs built on new-age, sophisticated systems.
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes • https://www.nationalskillsnetwork.in/electric-vehicle-industry-in-india-skill-training-and-career-opportunities/ • https://files.wri.org/d8/s3fs-public/2022-08/conference-proceedings-just-transition-and-skill-development-in-the-ev-industry-wri-india.pdf?VersionId=4.11d.yeccnseNJHbRfGSKPNrqU2qDCA • https://www.nationalskillsnetwork.in/electric-vehicle-industry-in-india-scope-for-skill-development-and-employment-generation/
3.	Government /Industry initiatives/ requirement (Yes/No): No The course has been developed by Ministry of Environment, Forest and Climate Change
4.	Number of Industry validation provided: 22 Provided in the annexure
5.	Estimated nos. of persons to be trained and employed: 100 candidates* per year (* number of candidates can vary based on fund availability)
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Concurred by Ministry of Environment, Forest and Climate Change (Line Ministry).

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 1: Evidence of Level

Title/Name of qualification/component: EV Charging Installation Technician			
Level: 4.5			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
Professional Theoretical Knowledge/ Process	Trainees will possess specialized knowledge of procedures employed in both routine and non-routine contexts. They will possess specialized operational knowledge in EV and will understand the work. They will understand the financial and feasibility aspect of various work components.	Trainees will be able to understand the procedure employed in EV sector. Participants after completion of Job role will possess specialized operational knowledge. They will understand financial and economic considerations of the prevailing market.	4.5
Professional and Technical Skills/ Expertise/ Professional Knowledge	Trainees will possess specialized professional and technical skills in installation, operation and maintenance of EV Charging Station infrastructure. They will display clarity of professional knowledge and technical skills in EV related sector. They can apply knowledge for successfully implementing EV Charging Stations technology. They will clearly identify the relevant tools and its uses.	Trainees will develop specialized professional and technical skills for EV Charging Station infrastructure. They will implement knowledge acquired for successful implementation.	4.5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Trainees will develop much broader Employability Skills including understanding of career planning, digital skills, financial and legal literacy. Trainees will also have good Communication skills. Develop skills for self-employment and entrepreneurship skills.	Trainees will develop employability skills, financial and legal literacy, communication skills. They will develop skills for self-employment and entrepreneurship.	4.5
Broad Learning Outcomes/Core Skill	Trainees will carry out specialized job/ work. They can handle application of standard and non-standard procedures. Perform complex tasks by themselves without much instructions and supervision. They will be able to work independently as Supervisor or entrepreneur.	Trainees will work independently as Charging Professional, Operation and maintenance, petty contractor, EV charger Retailer. Candidate can work as entrepreneur at EV market.	4.5
Responsibility	Trainees will become highly skilled Supervisors. Can perform all non-standard procedures and non-routine tasks with confidence.	Trainees as skilled Supervisors will perform all non-standard procedures and non-routine tasks with confidence.	4.5

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

List of Tools and Equipment

Batch Size: 20 and 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size (30)	Quantity for specified Batch size (20)
1.	Screw Driver set	As per Industry	30	20
2.	Line Tester	As per Industry	30	20
3.	EVSE simulator/testing kit	As per Industry	4	4
4.	Battery along with EV charger	As per Industry	4	4
5	Plier	As per Industry	30	20
6	Multimeter,	As per Industry	30	20
7	Clamp meter (standard)	As per Industry	30	20
8	Hammer	As per Industry	30	20
9	Wrench	As per Industry	30	20
10	Cutter	As per Industry	30	20
11	EV Simulator	As per Industry	4	4
12	Earthing Tester	As per Industry	4	4

Software- QGIS/any RS-GIS software, Google EarthPro.

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Laptop with Internet connection
2. White Board/ Projector, etc.

Annexure 3: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	HTWOMINE SOLUTIONS PRIVATE LIMITED	Supriya Tirthkar	Director	Sr no. 21/3B, Ragoba Patil Nagar, Pune, Maharashtra	9.18391E+11	Supriya.tirthkar@gmail.com	
2	Nimar Solar	Satyendra Singh Chouhan	Director	305, KB Mall, Sapna Sangeeta Road, Indore (M.P.)-452001	-7000834564	info.nimarsolar@gmail.com	
3	VACEN ENGINEERING AND SOLUTIONS PRIVATE LIMITED	Vibhutinath Pandey	Director	H-72-A, Second Floor, Kh No. 80/14, Mahavir Enclave, Palam, New Delhi-1100945	7503208625	vibhuti.vacen@gmail.com	
4	Novace Pvt. Ltd.	Riplav	Director	Anand Cinema, Kabirpur Road, Near Milk Plant, Sonapat, Haryana 131001	+91 7082598980	novaceev@gmail.com	
5	EVOLT ENERGY SYSTEMS LLP	Sarthak Shukla	Partner	304, Plot No. 4, Aditya Complex, Sector-10, Dwarka, New Delhi, 110075	+91 7073351655	sarthak@e-volt.in	
6	Terra Charge India Pvt. Ltd.	Debayan Das	Network Expansion Head	Stesalit Tower, Block-GP, E-2-3, Sector-V, Salt Lake, West Bengal 700091	8820885275	debayandas@terra-charge.co.in	
7	GD Goenka University	Vipul Pandey	AGM	GD Goenka Education City, Sohna Gurugram Haryana 122013	9149057199	vipul.pandey@gdg u.org	
8	Heemsol Energy System Pvt Ltd	Dipti Shah	Director	1st Floor Giriraj Complex, Opp. Bank of Baroda, Ahmedabad, Gujarat-380013	-9898167641	dipti@heemenergy.com	

9	GOREnewable Technology	Japen Gor	Managing Partner	214, Devpath Complex, B/H Lal Bungalow, Off C.G. Road, Ahmedabad, Gujarat-380009	-9099064257	japen@gorenwtech.com	
10	TAPSIL JATI ADIBASI PRAKTAN SAINIK KRISHI BIKASH SHILPA KENDRA	Soumen Koley	Secretary	Gentegory, Palashy, Dhaniakhali, Hooghly, West Bengal, 712303	9647690557 / 8860597565	s.n.koley20@gmail.com	
11	Chronic Foundation	Ramesh S	Chairman	No 55, Opp to Shanubhoganahally Lake, Chokkanahalli, Arekere Post, Bangalore North 562163	9845010306	ramesh@chronicfoundation.org	
12	Green Life Solution Pvt. Ltd.	Vikas Deshpande	General Manager - Sales	XI-74/6, Behind Priyadarshini Polytechnic, MIDC, Hingna Road, Nagpur - 440 016	+91 9225332011		
13	Green Life Solution Pvt. Ltd.	Vikas Deshpande	General Manager - Sales	XI-74/6, Behind Priyadarshini Polytechnic, MIDC, Hingna Road, Nagpur - 440 016	+91 9225332011		
14	Danao Green Tech Private Limited	Dr Sanjay Danao	Director	203, Sai Avenue, D-7, CIDCO Meghdoot, Butibori MIDC, Nagpur - 441122	+91 9545648496	danaogreentech@gmail.com	
15	GD Goenka University	Vipul Pandey	AGM	GD Goenka Education City, Sohna Gurugram - Haryana 122013	9149057199	vipul.pandey@gdg u.org	
16	Heemsol Energy System Pvt Ltd	Dipti Shah	Director	1st Floor Giriraj Complex, Opp. Bank of Baroda, Ahmedabad, Gujarat-380013	-9898167641	dipti@heemenergy.com	
17	GOREnewable Technology	Japen Gor	Managing Partner	214, Devpath Complex, B/H Lal Bungalow, Off C.G. Road, Ahmedabad, Gujarat-380009	-9099064257	japen@gorenwtech.com	

18	TAPSIL JATI ADIBASI PRAKTAN SAINIK KRISHI BIKASH SHILPA KENDRA	Soumen Koley	Secretary	Gentegory, Palashy, Dhaniakhali, Hooghly, West Bengal, 712303	9647690557 / 8860597565	s.n.koley20@gmail. com	
19	Chronic Foundation	Ramesh S	Chairman	No 55, Opp to Shanubhoganahally Lake, Chokkanahalli, Arekere Post, Bangalore North 562163	9845010306	ramesh@chronicfo undation.org	
20	Terra Charge India Pvt. Ltd.	Debayan Das	Network Expansion Head	Stesalit Tower, Block-GP, E-2- 3, Sector-V, Salt Lake, West Bengal 700091	8820885275	debayandas@terra -charge.co.in	
21	EVOLT ENERGY SYSTEMS LLP	Sarthak Shukla	Partner	304, Plot No. 4, Aditya Complex, Sector-10, Dwarka, New Delhi, 110075	+91 7073351655	sarthak@e-volt.in	
22	Novace Pvt. Ltd.	Riplav	Director	Anand Cinema, Kabirpur Road, Near Milk Plant, Sonapat, Haryana 131001	+91 7082598980	novaceev@gmail.c om	

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
2025-26	200	50	40	10	10	2
2026-27	200	50	40	10	10	2
2027-28	100	20	10	2	5	1

Training, Assessment, Certification, and Placement Data for previous versions of qualifications: Not Applicable (as this is a new course)

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

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: Not Applicable

Content availability for previous versions of qualifications: Not Applicable

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

Languages in which Content is available: Not Applicable

Annexure 5: Detailed Assessment Criteria

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

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Assessment			
		Theory	Practical	Project	Viva
SGJ/N4079: Introduce Basics of EV Science and Impact on Low Carbon Transport.	<i>Basic EV science and Impact of EV to build low carbon transportation; Comparison between ICE and Electric Vehicles</i>	50	0	-	-
	PC1. Understand the key components of an electric vehicle	6	-	-	-
	PC2. Comprehend the types of batteries used in EVs, their characteristics, and their role in energy storage and delivery.	8	-	-	-
	PC3. Explore the environmental benefits of EVs	8	-	-	-
	PC4. Understand the concept of life cycle analysis and how it applies to EVs, comparing it with the life cycle of ICE vehicles.	8	-	-	-
	PC5. Evaluate the total cost of ownership for EVs, including factors like purchase price, fuel/electricity costs, maintenance, and government incentives.	10	-	-	-
	PC6. Explore the growth and challenges of EV charging infrastructure, including the importance of public/home charging stations.	10	-	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N4080: Demonstrate EV Charging through Computer/Mobile Applications	Demo of computer/mobile use for software driven EV charging (Master Class)	20	30	-	-
	PC1. Understand the essentials of document creation, formatting, and editing in Word, including templates, styles, and collaboration tools.	4	-	-	-
	PC2. Learn spreadsheet management, data entry, functions, formulas, and data analysis using Excel, including charts and graphs.	4	-	-	-
	PC3. Gain insight into the components and architecture of software-driven EV charging systems, including charging stations, charging management software, and communication protocols.	4	-	-	-
	PC4. Navigate the user interface of software-driven EV charging systems, monitor charging progress, and troubleshooting common issues.	4	-	-	-
	PC5. Explore data collection and management in EV charging, including billing, usage tracking, and remote monitoring capabilities.	4	-	-	-
	PC6. Successfully initiate and manage EV charging sessions using software-driven systems, including user authentication and payment processing.		10		

PC7. Identify and resolve common issues that may arise during EV charging	10		
PC8. Use software-driven tools to monitor and collect charging data, including billing and usage statistics.	10		

NSQC APPROVED

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N4081: Introduce Policy and Regulatory Ecosystem for Electric Vehicle Charging Stations.	<i>Policy & Regulatory Ecosystem of Electric Vehicle (EV) Charging Stations</i>	50	-	-	-
	PC1. Understand the existing policy landscape for EV charging stations, covering areas such as safety standards, permitting processes, land use regulations, and grid integration.	10	-	-	-
	PC2. Gain insight into the regulatory framework that governs the siting, design, and operation of EV charging stations, including legal requirements and codes of practice.	10	-	-	-
	PC3. Explore government incentives, subsidies, and tax benefits that promote the development of EV charging infrastructure and encourage EV adoption.	7	-	-	-
	PC4. Learn about environmental regulations and considerations, including emissions reductions and sustainability requirements, related to EV charging infrastructure	6	-	-	-
	PC5. Navigate the permitting and zoning requirements for EV charging stations, including land use permissions and location-specific regulations.	7	-	-	-
	PC6. Explore international best practices in EV charging station regulation and policy, enabling you to adapt and improve local policies and standards.	10	-	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N4082: Perform Pre-Installation Planning and Site Readiness for EV Charging Infrastructure	<i>Planning and Preparedness for installation and Commissioning process of EV charging station</i>	23	27	-	-
	PC1. Master regulations for EV charging installations, ensuring compliance and safe deployment within local codes and standards.	8	-	-	-
	PC2. Learn load analysis techniques, assess grid impact, and propose upgrades, optimizing electrical infrastructure for EV stations.	6	-	-	-
	PC3. Grasp principles of sizing infrastructure to support diverse charging stations, ensuring scalability and efficient operation.	4	-	-	-
	PC4. Develop safety protocols and emergency plans, prioritizing user and personnel safety in EV charging station environments.	5	-	-	-
	PC5. Assess sites for EV charging, considering accessibility and power; tailor installations to user demand and location suitability.	-	5	-	-
	PC6. Master equipment selection aligned with station needs and budget, ensuring optimal charging infrastructure.	-	4	-	-
	PC7. Develop skills in safe electrical installation, covering components, charging stations, and associated equipment.	-	6	-	-
	PC8. Learn commissioning processes, including testing, software configuration, and safety checks, ensuring station functionality and reliability.	-	6	-	-
	PC9. Understanding the environmental impact of EV charging stations and exploring strategies for	-	6	-	-

	reducing energy consumption and environmental footprint.				
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NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N4083: Perform Erection and Installation of EV Charging Stations	Erection and Installation of EV Charging Station	20	30	-	-
	PC1. Interpret technical specifications for charging station components.	10	-	-	-
	PC2. Evaluate the implications of non-compliance.	10	-	-	-
	PC3. Demonstrate proficiency in the physical installation process.	-	15	-	-
	PC4. Conduct quality checks during and after installation.	-	15	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N4084: Conduct Testing and Commissioning of EV Charging Stations	Testing and Commissioning of EV Charging Station	30	20	-	-
	PC1. Identify testing requirements for various charging station components.	15	-	-	-
	PC2. Develop a commissioning plan for EV charging infrastructure.	15	-	-	-
	PC3. Execute testing procedures accurately.	-	10	-	-
	PC4. Demonstrate proficiency in the commissioning process.	-	10	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Assessment			
		Theory	Practical	Project	Viva
SGJ/N4085: Introduce GPS Mapping and Explain Its Importance for EV Charging	GPS mapping and its importance	30	20	-	-
	PC1. Fundamentals of GPS mapping and its importance	10	-	-	-
	PC2. Interpret GPS data for site selection and navigation.	10	-	-	-
	PC3. Evaluate the role of mapping in optimizing charging station locations.	10	-	-	-
	PC4. Hands on training on GPS mapping	-	10	-	-
	PC5. Utilize GPS data for real-world applications in EV infrastructure and gathering related information	-	10	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Assessment			
		Theory	Practical	Project	Viva
SGJ/N4086: Operate and Maintain EV Charging Stations Efficiently	Operate the EV Charging Station	20	20	-	-
	PC1. Develop operational procedures for smooth charging station functionality.	10	-	-	-
	PC2. Evaluate user experience and satisfaction.	10	-	-	-
	PC3. Demonstrate proficiency in operating station components	-	10	-	-
	PC4. Provide excellent customer service.	-	10	-	-
	Maintain the EV Charging Station	40	20	-	-
	PC1. Develop a maintenance schedule and checklist.	20	-	-	-
	PC2. Evaluate the environmental impact	20	-	-	-
	PC3. Implement preventive maintenance strategies	-	10	-	-
	PC4. Demonstrate troubleshooting skills.	-	10	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N4087: Follow Basic Health and Safety Practices in EV Charging Station Operations	Basic Health and Safety Practices	30	20	-	-
	PC1. Develop and communicate safety protocols.	15	-	-	-
	PC2. Evaluate the effectiveness of safety measures.	15	-	-	-
	PC3. Apply safety measures in practical scenarios	-	10		
	PC4. Conduct safety drills and simulations.	-	10		

Annexure 6: 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	MS-Office software	
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 7: 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 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 8: 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 9: Career Progression and OM

