

QUALIFICATION FILE

Helper Electrician

☒ 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: 2

Submitted By:

Construction Skill Development Council of India

Address: CPB - 201 & 202, Block-4B, DLF Corporate Park, Phase - III, MG Road, Near Guru Dronacharya Metro Station, Gurugram, Haryana - 122002

Submitting Body Contact Details:

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Section 1: Basic Details

1.	Qualification Name	Helper Electrician										
2.	Sector/s	Construction										
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: (QG-02-CO-03386-2024-V1.1-CSDCI, v 3.0)	Qualification Name of existing/previous version: Helper Electrician									
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	NA										
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-02-CO-03950-2025-V2-CSDCI & v 4.0	6. NCrF/NSQF Level: 2									
7.	Award (Certificate/Diploma/Advanced Diploma/ Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate										
8.	Brief Description of the Qualification	A Helper Electrician is responsible for helping the construction electrician and performing tasks under instructions and supervision. The responsibilities also include performing preparatory works before temporary and permanent electrical installations and handling tools, devices, and materials used to perform electrical works.										
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>No formal education prescribed</td> <td></td> </tr> <tr> <td>2.</td> <td>May require the ability to read and write for some qualifications</td> <td></td> </tr> </tbody> </table> b. Minimum Job Entry Age: 18 years		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	No formal education prescribed		2.	May require the ability to read and write for some qualifications	
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)										
1.	No formal education prescribed											
2.	May require the ability to read and write for some qualifications											

10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	9	11. Common Cost Norm Category (I/II/III) (wherever applicable): I																					
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																						
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☒ 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>90</td> <td>150</td> <td>30</td> <td></td> <td>270</td> </tr> <tr> <td>Online</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)	Total (Hours)	Classroom (offline)	90	150	30		270	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	90	150	30		270																			
Online																								
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/9313.0501																						
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Assistant Electrician																						
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 URLs of similar Qualifications:																						
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:																						
19.	How Participation of Women will be Encouraged	To encourage women to participate in Construction Electrical Works job roles, it is important to provide education, mentorship, and networking opportunities, as well as training and development programs. Flexible work arrangements and promoting successful women in Construction Electrical Works can also inspire and encourage women to pursue careers in this field. Creating a culture of inclusion and diversity can																						

		help women feel welcome and valued in Construction Electrical Works job roles, through policies and practices that support work-life balance, equal pay and promotion opportunities, and a safe and respectful workplace.	
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☐ No CON/N9001	
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: Abhisek Prasad Mishra Email: abhisek@csdcindia.org Contact No.: 0124-4513915-18 Ext-22 Website: www.csdcindia.org	
23.	Final Approval Date by NSQC: 08.05.2025	24. Validity Duration: 3 Years	25. Next Review Date: 30.04.2028

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 to the curriculum document.

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Handle different tools, measuring devices and materials relevant to LV (low voltage) electrical works	CON/N0606 & V 4.0	Core	2	2	20	30	10	-	60	30	70	-	-	100	20
2.	Carry out wall chasing and external threading on MS (Mild Steel) conduit	CON/N0607 & V 4.0	Core	2	2	15	35	10	-	60	30	70	-	-	100	30
3.	Erect and dismantle temporary scaffold up to 3.6-meter height	CON/N0101 & V 2.0	Core	3	2	15	35	10	-	60	30	70	-	-	100	20

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
4.	Work according to personal health, safety and environment protocols at construction site	CON/N9001 & V 3.0	Non-Core	4	1	05	25	-	-	30	30	70	-	-	100	10
5.	Work effectively in a team to deliver desired results at the workplace	CON/N8001 & V 3.0	Non-Core	4	1	05	25	-	-	30	30	70	-	-	100	10
6.	Employability Skills (30 Hours)	DGT/VSQ/N0101	Non-Core	2	1	30	-	-	-	30	20	30	-	-	50	10
Duration (in Hours) / Total Marks					9	90	150	30	-	270	170	380	-	-	550	100

Elective NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Duration (in Hours) / Total Marks					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Optional NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Duration (in Hours) / Total Marks			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Assessment - Minimum Qualifying Percentage

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

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

Minimum Pass Percentage – NOS/Module-wise: ____% (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Minimum Educational Qualification	Specialization	Relevant Industry Experience		Preferable Training Experience	
				Years	Specialization	Years	Specialization
		B.E. / B.Tech	Electrical Engineering	2	Site Execution (Electrical Work)	1	Construction Electrical Work
		OR					
		Diploma	Electrical Engineering	3	Site Execution (Electrical Work)	1	Construction Electrical Work
		OR					
		ITI	Relevant Trade	6	Site Execution (Electrical Work)	1	Construction Electrical Work
		OR					
		Graduation	in any Stream	6	Site Execution	1	Construction Electrical Work

				(Electrical Work)			
		OR					
		Ex-Army Graduate	in any Stream	6	Site Execution (Electrical Work)	1	Construction Electrical Work
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Minimum Educational Qualification	Specialization	Relevant Industry Experience		Preferable Training Experience	
				Year s	Specialization	Year s	Specialization
		B.E. / B.Tech	Electrical Engineering	6	Site Execution (Electrical Work)	1	Construction Electrical Work
		OR					
		Diploma	Electrical Engineering	8	Site Execution (Electrical Work)	1	Construction Electrical Work
		OR					
		ITI	Relevant Trade	10	Site Execution (Electrical Work)	1	Construction Electrical Work
		OR					
		Existing TOT certified Trainer in Skill Qualification	Helper Electrician	2	Site Execution (Electrical Work)	5	Construction Electrical Work
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	NA					

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Minimum Educational Qualification	Specialization	Relevant Industry Experience	
				Years	Specialization
		B.E. / B.Tech	Electrical Engineering	2	Construction Electrical Work
		OR			
		Diploma	Electrical Engineering	5	Construction Electrical Work
		OR			
		ITI	Relevant Trade	7	Construction Electrical Work
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Minimum Educational Qualification	Specialization	Relevant Technical Experience	
				Year s	Specialization
		Graduation	In Relevant Stream	1	-
		OR			
		Diploma	In Relevant Stream	2	-
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Minimum Educational Qualification	Specialization	Relevant Industry Experience	
				Years	Specialization
		B.E. / B.Tech	Electrical Engineering	10	Construction Electrical Work
		OR			
		Diploma	Electrical Engineering	13	Construction Electrical Work

4.	Assessment Mode (<i>Specify the assessment mode</i>)	Offline
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
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 28
5.	Estimated nos. of persons to be trained and employed: 6,000 and 4,200
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: (If “No”, why): No, Last Communication was on 09/04/2025

Section 6: Annexure & Supporting Documents Checklist

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (<i>Mandatory</i>)	Yes
2.	Annexure: List of tools and equipment relevant for qualification (<i>Mandatory, except in case of online course</i>)	Yes
3.	Annexure: Detailed Assessment Criteria (<i>Mandatory</i>)	Yes
4.	Annexure: Assessment Strategy (<i>Mandatory</i>)	Yes
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is “Blended Learning”</i>)	No
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	No
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	Yes
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	Yes

9.	Supporting Document: Career Progression (Mandatory - Public view)	Yes
10.	Supporting Document: Occupational Map (Mandatory)	Yes
11.	Supporting Document: Assessment SOP (Mandatory)	Yes
12.	Any other document you wish to submit:	No

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 Knowledge/Process	- Process of handling different tools, measuring devices and materials relevant to LV (low voltage) electrical works. - Process of carrying out wall chasing and external threading on MS (mild steel) conduit. - Process of erecting and dismantling temporary scaffold up to 3.6-meter height - Process of working effectively in a team to deliver desired results at the workplace - Process of working according to personal health, safety and environment protocols at the construction site	As detailed, the entire process followed by an Helper Electrician is to handle different tools, measuring devices and materials relevant to LV (low voltage) electrical works, carry out wall chasing and external threading on MS (mild steel) conduit, erect and dismantle temporary scaffold up to 3.6 meter height. As the work is routine and is repeated multiple times, the work becomes predictable. As the Helper Electricians are required to perform the task as per the required codes and standards following the method statement available for the task, they have a clear work situation.	2
Professional and Technical Skills/ Expertise/ Professional Knowledge	Know the standard organizational practices followed for the electrical works	The knowledge required for an Helper Electrician is factual, as it is specific and limited to the knowledge of handling and storing required tools, equipment, and materials; common electrical hand and power tools; various types of cables, wires, conduits and their use	2

	• Understand the concept of electrical current flow and factors which influence electrical flow through conductors • Know the safety rules and regulations for handling and storing required tools, equipment, and materials • Know the common electrical hand and power tools • Know the various types of cables, wires, conduits and their use in LV electrical connections • Know the hand and power tools to be used in wall chasing work • Understand the concept of conductors and semiconductors including their physical properties • Understand the basics of electrical charge, current flow and their types • Know the use of different types of scaffolds (e.g. cup-lock, frame scaffold) • Know standard procedure for erecting and dismantling 3.6 m temporary scaffold	in LV electrical connections; concept of electrical current flow and factors which influence electrical flow through conductors; concept of conductors and semiconductors including their physical properties; basics of electrical charge, current flow and their types; use of different types of scaffolds (e.g. cup-lock, frame scaffold); standard procedure for erecting and dismantling 3.6 m temporary scaffold. Therefore, their knowledge is applicable to their field of work only.	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• Use different hand and power tools relevant to LV (low voltage) electrical works • Select electrical materials and fixtures like wires, cables, conduits, clamps, lights, miniature circuit breakers, switches, sockets, starters and related accessories	As indicated the skill set is required to use different hand and power tools relevant to LV(low voltage) electrical works; select electrical materials and fixtures like wires, cables, conduits, clamps, lights, miniature circuit breakers, switches, sockets, starters and related accessories; Inspect material storage location on-site for safe storage condition; check the working condition of tools and materials; measure, mark and	2

	- Inspect material storage location on-site for safe storage condition - Check the working condition of tools and materials - Measure, mark and cut cables and conduits as per instruction - Use appropriate components and follow the standard procedure for erecting temporary scaffold up to 3.6 m in height - Follow the standard procedure for dismantling the temporary scaffold,	cut cables and conduits as per instruction; use appropriate components and follow the standard procedure for erecting and dismantling a temporary scaffold up to 3.6 m in height.	
Broad Learning Outcomes/Core Skill	- Carry out handling of different tools, measuring devices and materials relevant to LV (low voltage) electrical works. - Carry out wall chasing and external threading on MS (mild steel) conduit. - Carry out the process of erecting and dismantling temporary scaffold up to 3.6-meter height.	The job holder is expected to carry out handling different tools, measuring devices and materials relevant to LV (low voltage) electrical works; wall chasing and external threading on MS (mild steel) conduit, process of erecting and dismantling temporary scaffold up to 3.6-meter height.	2
Responsibility	The individual in this job role will be responsible for the below-mentioned activities: - Handle tools, accessories, and electrical devices. - Handle and shift material and fixtures relevant to LV electrical works. - Carry out preparatory work prior to concealed wiring work	A Helper Electrician is responsible for helping the construction electrician and performing tasks under instructions and supervision. The responsibilities also include performing preparatory works before temporary and permanent electrical installations and handling tools, devices, and materials used to perform electrical works.	2

	• Chase wall as per marking and assist in conduit laying as per instructions • Carry out external threading on MS conduit • Erect and dismantle temporary scaffold • Interact and communicate effectively with co-workers, superiors and subordinates across different teams • Support co-workers, superiors and subordinates within the team and across interfacing teams to ensure effective execution of assigned task • Acknowledge and show sensitivity to disability, culture and gender diversity • Follow safety norms as defined by organization • Adopt healthy & safe work practices • Implement good housekeeping and environment protection process and activities • Follow infection control guidelines as per applicability		
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Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30 Candidates

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Safety Message Board/ Safety notice board	Nos	5
2	safety tags	Nos	5
3	First aid box	Nos	2
4	Fire prevention kit	Nos	2
5	Flashback arrestor	Nos	10
6	Hand & leg guard leather	Nos	30
7	wire Brush	Nos	10
8	Jump suit	Nos	10
9	Leather Hand Gloves	Nos	30
10	Sand buckets	Nos	5
11	Fire extinguishers	Nos	2
12	Reflective jackets	Nos	30
13	Particle masks	Nos	15
14	Ear plugs	Nos	15
15	Insulated rubber gloves	Nos	30
16	Safety belt	Nos	8
17	Safety shoes	Nos	30
18	Safety goggles	Nos	30
19	Face shield	Nos	10
20	Helmet	Nos	30
21	Miniature Circuit Breaker (MCB)	Nos	6
22	Earth Leakage Circuit Breaker (ELCB)	Nos	2
23	Mains breaker switch	Nos	5
24	Simple switchboard	Nos	6
25	wall socket	Nos	6
26	Halogen lamp	Nos	3
27	Tungsten bulb/ CFL/FSL bulb	Nos	10

28	Electrical socket (set)	Nos	6
29	Chasing machine	Nos	1
30	Drilling machine	Nos	3
31	Cutting machine	Nos	1
32	Marking tools	Nos	10
33	Spirit level	Nos	10
34	Measuring tape	Nos	10
35	Tong tester	Nos	5
36	Megger	Nos	1
37	Digital Multimeter	Nos	2
38	Ohmmeter	Nos	2
39	Wattmeter	Nos	2
40	Voltmeter	Nos	2
41	Ammeter	Nos	2
42	Neon tester	Nos	10
43	Wire strippers	Nos	10
44	Crimping tools	Nos	6
45	Screw Drivers (set)	Nos	6
46	Pliers	Nos	30
47	Electrical Tape	Nos	10
48	Cable Ties	Nos	30
49	Cable Cutter	Nos	30
50	Heavy Duty Cable Cutters	Nos	10
51	Fish Tape	Nos	30
52	Coax Connector	Nos	30
53	Terminal Block	Nos	30
54	Cable Lugs	Nos	30
55	Reaming Bit	Nos	10
56	Conduit Bender	Nos	10
57	Splicing Connector	Nos	10
58	Thermal Imaging Cameras	Nos	1
59	Power Quality Analyzers	Nos	1
60	Multifunction Testers	Nos	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Training Kit (Trainer Guide, Presentations)
2. Whiteboard/ Blackboard
3. Marker
4. Projector
5. Working Model

NSQC Approved

Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in the table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Larsen and Toubro Ltd	J Raguraman	Head, CSTD	PB No 979, Mount Poonamallee Road, Manapakkam, Chennai, 600089	9943247482	jraguraman@lntecc.com	
2	National Academy of Construction	M Indra Kiran	Director	Near SS Convention Center, Labbipet, Vijayawada, Andhra Pradesh, PIN: 520010	984947 0249	nacaptrainings@gmail.com	
3	Indian Institute of Infrastructure and Construction	Prof. (Dr.) B. Sunil Kumar	Director, IIIC	Near Chavara Bridge, AMC, Puthanthura Post, Neendakara - 69L582, Kollam. Kerala	9895013924	director@iiic.ac.in	
4	JK Cement Ltd	Ashish Singh	General Manager	Kamla Tower, Kanpur Nagar, UP, 208001	9468837057	ashish.singh1@jkcement.com	
5	Kamac Engineers Pvt Ltd	Yudhajit Saha	Manager – Contracts & Planning	Ramkrishna Samity Building,	8240040261	planning@kamac.in	

				Panitanki More, 40/107, Sevoke Rd, Ward 11, Near Pani Tanki More (Clock Tower), Siliguri, West Bengal 734001			
6	One Naga Construction Private Limited	Tunito Alex Zhimomi	CEO	DR.N. Theuno; Bayavu; Near N.B.S Office Area; Kohima; Kohima; Nagaland; 797001; India	7005715093	alexzim881@gmail.com	
7	OP Jindal Community College	Om Prakash Verma	Principal	O P Jindal Industrial Park, Tumidih, Chhattisgarh 496107		omprakash.verma@opjccraigarh.edu.in	
8	Poddar Infratech Pvt Ltd	Ms. Neha Devgan	Contracts Manager	202, Crowne Heights, Sector 10 , Rohini , New Delhi	8449521881	letters@poddarinfra.com	
9	Solidstone Constructions	Pragadeeshwaran R J	Principal Designer & Chief Execution (Civil)	7/2 Perumal Nagar, No4 Veerapandi, CBE – 19	7904788630	solidstone.projects@gmail.com	linkedin.com/in/pragadeeshwaran-r-j-6baab7193
10	Star Projects Services Pvt Ltd	H. Asgar		K-108 A, First Floor, Above JD Saloon,	9811376288	starprojectsservices@gmail.com	

				Thokar No. 5, Abul Fazal Enclave Part –I, Jamia Nagar, Okhla, N. Delhi 25			
11	Uralungal Labour Contract Co- operative Society	Prem Anand C	Deputy Manager, Learning & Development	Madappally College, Vadakara, 673102 Kozhikode - 673102. Kerala, India	8921763984	prem.anand@ ulccs.com	
12	Route To Connect	Hrisikesh Kashyap	Founder	Bagharbari, Guwahati, Assam	8720905111	hrisi@rtsseven. in	
13	IIT Guwahati	Sparsh Johari	Assistant Professor	North Guwahati, Assam – 781039	7827060976	sparshjohari@i itg.ac.in	
14	AK Consulting	Nirman Jain	Technical Head	6th Cross Rd, 1st Stage, Kadugondanah alli, Bengaluru, Karnataka 560045	7042447336	nirmanjain777 @gmail.com	
15	Artificial Intelligence Technologies Ltd	Rohit Kumar Sharma	Sr. Developer	A-21 Kailash Colony, New Delhi – 110048	9927564461	rohit.sharma@ aituniversal.co m	
16	Asirbadh Projects and Infrastructure Limited	Kunwar Jee	GM (Projects)	A.G. Office Road, Doanda, Ranchi-	7858801901	ahplmd@yaho o.com	

				834002, Jharkhand.			
17	Donge Project Management Consultants Pvt. Ltd.	Balkrishna Kulkarni	President	401, Imperial Heights, Akshar Chowk, OP Road, Vadodara	9819657656	balkrishna.kulk arni@dongrep mc.com	
18	Ephicacy Lifescience Analytics	Rahul Kumar Kaushik	Sr. Manager	2nd Main Rd, Sarvobhogam Nagar, Arekere, Bengaluru, Karnataka 560076	8859885973	rahul.Kaushik @ephicacy.co m	
19	Freelance Architect (Individual Consultant)	Garvit Sharma	Architect	A-101 Radha Krishna Lane, Kaushambi, Ghaziabad, U.P	9971967901	grsharma97@g mail.com	
20	Institute of Management Technology	Sandeep Sharma	Chief Project Engineer & Senior Counsellor	Raj Nagar, Ghaziabad, UP, 201001	9810566031	sharma.sandyk @gmail.com	
21	Know How Schools	Dipesh Bafna	Partner	Know How Schools LLP, C 601, Royal Casa, Ravet, Pune, 412101	9405266123	learn@knowho wschools.com	
22	L& T Skill Trainers Academy	DK Sharma	Principal - CSTI	Larsen & Toubro Ltd. Near Custom House, Versova Creek Madh Jetty, Madh,	7660986699	deepaks@Intec c.com	

				Mumbai, 400061			
23	LK Engicons	Sameer	Owner	114, Bhawanpur, Meerut, UP, 250001	9808170639	sales@lkengico ns.com	
24	Manpower Group Services India	Durgesh Begariya	Head Branch Operations	Unit-4 A/1 and A/2, 4th Floor, Plot No. 6, Uppal Plaza, Jasola, New Delhi	9824054165	durgesh.b@ma npower.co.in	
25	Senryaku Management Private Limited	Udit Kumar	Consultant	UTC031, DLF The Ultima, Sector 81, Gurugram, HR 122004	9690909024	udit.kau@gmai l.com	
26	Shrikant Gajanan Mhatre - Consulting Engineer & Valuer	Shrikant Gajanan Mhatre	Consulting Engineer & Valuer	Reg. No. CCRDP / R / 2022 / APL/ 00305 Approved Valuer No. -LM / CAT - I/ F - 4860, C P No. - 180. SHIV NIWAS / Sagar Society, Private High School Road I Pen - Raigad - Maharashtra - India . 402 107.	9689728209	sshri1000@gm ail.com	

27	Sunbright Manpower Solutions Pvt. Ltd	Arun Kumar	Supervisor	Shop No. 3144, Main Road, Narasapura, Kolar Taluk, Bangalore, Karnataka, 563133	7338463588	bangalore@sunbrightgroup.com	
28	ATS Homekraft	Bhumit Kamboj	General Manager, Program	ATS HomeKraft, 4th Floor, ATS Tower, Plot no-16, Sector-135, Noida-201305	9873951040	bhumit.kamboj@homekraft.in	

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	1500	1050	300	210	Subject to the requirement of the Industry	Subject to the requirement of the Industry
2026-27	2000	1400	400	280	Subject to the requirement of the Industry	Subject to the requirement of the Industry
2027-28	2500	1750	500	350	Subject to the requirement of the Industry	Subject to the requirement of the Industry

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
V 3.0	2022-23	28	26	20	436	NA	NA	NA	NA	NA	NA	NA	NA
V 3.0	2023-24	772	660	450	1460	NA	NA	NA	NA	NA	NA	NA	NA
V 3.0	2024-25	896	800	600	1369	NA	NA	NA	NA	NA	NA	NA	NA

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1. AICTE
2. CSR
3. DDUGKY
4. Fee Based
5. HPKVN
6. GSDM
7. HSDM
8. MMKVY
9. NULM
10. PMKVY 4.0
11. Tejaswini Project

Content availability for previous versions of qualifications:

☒ Participant Handbook ☒ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ 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	NA	NA
3	☐ Showing Practical Demonstrations to the learners	NA	NA
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	NA	NA
5	☐ Tutorials/ Assignments/ Drill/ Practice	NA	NA
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	NA	NA
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	NA	NA

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
Handle different tools, measuring devices and materials relevant to LV (low voltage) electrical works	<i>Handle tools, accessories and electrical devices</i>	10	30		
	PC1. use different hand tools like screw driver, pliers, wire strippers, voltage testers, insulation tapes, hacksaw and other tools relevant to LV (Low Voltage) electrical works				
	PC2. use power tools like drill machine, hand cutting machine, hand grinding machine required to carry out LV electrical installation work				
	PC3. use measuring tape, plumb bob, spirit level, line thread and other relevant hand tools for carrying out checks in alignment of works				
	PC4. handle common electrical measuring devices like multimeter, earth tester, tong tester and megger required to undertake LV electrical tests/ inspections				
	PC5. handle common construction equipments like steel cutting & bending machine, welding machine, vibrators, pumps, motors, tower cranes, batching plants etc				
	PC6. identify Lock Out Tag Out (LOTO) –shutdown requirements at construction sites				

	<i>Handle and shift material and fixtures relevant to LV electrical works</i>				
	PC7. select electrical materials and fixtures like wires, cables, conduits, clamps, lights, miniature circuit breakers, switches, sockets, starters and related accessories				
	PC8. check for breakages, cracks, dampness, corrosions etc. in the electrical materials and fixtures prior to use				
	PC9. shift lights, cables, conduits, cable trays, brackets, DBs, ladders and other relevant materials to the appropriate work locations as per directions				
	PC10. inspect material storage location on-site for safe storage condition which includes avoiding vicinity of water, fire, direct sunlight, service lines, existing electrical lines and ongoing construction works etc.	20	40		
	PC11. store and stack electrical materials at work locations as per instructions/standard practices				
	PC12. provide protective cover, erect barricades, signages around the stacked materials adequately as per instructions				
	PC13. carry out housekeeping at work locations before and after completion of work				
NOS Total		30	70		

NOS/Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Carry out wall chasing and external threading on MS (Mild Steel) conduit	<i>Carry out preparatory work prior to concealed wiring work</i>	10	20		
	PC1. arrange and stack the required hand and power tools at the identified job location				
	PC2. arrange and stack electrical materials such as cables, wires, conduits and fixtures required for wall chasing and LV (Low Voltage) wiring work				
	PC3. carry out measurement and marking on wall surface using appropriate tools as per instruction				
	PC4. check the working condition of tools and materials and perform the required basic maintenance	10	30		
	<i>Chase wall as per marking and assist in conduit laying as per instructions</i>				
	PC5. use appropriate PPE for carrying out chasing activity				
	PC6. carry out firm cutting on wall surface using wall chasing machine as per marking while maintaining uniform depth				
	PC7. finish the wall chasing work using hand tools as per standard practice maintaining the required dimension				
	PC8. measure, mark and cut cables and conduits as per instruction using appropriate tools				

	PC9. bend and join conduits as per requirement using appropriate tools				
	PC10. assist in placing conduits and cables/ wires and trough the same for permanent LV wiring works				
	PC11. clean the work locations after completion of work and dispose debris to appropriate location				
	PC12. assist senior in laying cables such as power and communication cables as per instructions				
	<i>Carry out external threading on MS (Mild Steel) conduit</i>				
	PC13. carry out measurement & marking on the MS conduits				
	PC14. hold the conduit in pipe vice as per standard practice				
	PC15. cut the conduit at marking point and carry out the edge finishing using appropriate tools				
	PC16. fix die cutter in die stock per instructions and use lubricants as per applicability				
	PC17. carry out the threading activity following the applicable trade safety norms				
	PC18. maintain standard housekeeping practice at the workplace				
	NOS Total	30	70		

NOS/Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
CON/N0101: Erect and dismantle temporary scaffold up to 3.6-meter height	<i>Erect and dismantle temporary scaffold</i>	30	70		
	PC1.carry out levelling in the area where scaffold needs to be erected and check for ground compactness				
	PC2.shift and stack the materials, components, tools and tackles required for erecting scaffolding, at the identified location				
	PC3.place base plates and sole boards on the ground as per the markings and given instructions				
	PC4.use appropriate components and follow the standard procedure for erecting temporary scaffold up to 3.6 m in height				
	PC5.assist in checking the verticality of scaffold at the first level of erection and take appropriate corrective measures, as required, before moving to the next level				
	PC6.assist in checking the rigidity, stability and support of erected scaffold				
	PC7.set up walk-boards, guard rails, toe-boards and other components on the scaffold's working platform				
	PC8.follow the standard procedure for dismantling the temporary scaffold, i.e. removing guard rails, toe boards, walk boards and other components				

	sequentially				
	PC9.clean and stack all components properly after dismantling				
	PC10.follow the recommended safety measures, including the use of appropriate PPE and being careful while working on heights				
	NOS Total	30	70		

NOS/Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Work according to personal health, safety and environment protocols at construction site	<i>Follow safety norms as defined by the organization</i>	6	14		
	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority				
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities				
	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable				
	PC4. follow all the protocols and safety techniques conveyed during safety awareness programs like Tool Box Talks, safety demonstrations and mock drills conducted at the site				

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

	PC14. apply ergonomic principles wherever required				
	<i>Follow infection control guidelines as per applicability</i>				
	PC15. follow recommended personal hygiene, workplace hygiene and sanitization practices				
	PC16. clean and disinfect all materials, tools and supplies before and after use	3	7		
	PC17. report immediately to concerned authorities regarding signs and symptoms of illness of self and others				
NOS Total		30	70		

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

	PC5. communicate to team members/subordinates for appropriate work technique and method				
	PC6. seek clarification and advice as per the requirement				
	<i>Support co-workers to execute the project requirements</i>				
	PC7. hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams	6	14		
	PC8. work together with co-workers in a synchronized manner				
	<i>Practice inclusion</i>				
	PC9. maintain cultural inclusivity at workplace				
	PC10. maintain disability friendly work practices	6	14		
	PC11. follow gender neutral practices at workplace				
	PC12. address discriminatory and offensive behaviour in a professional manner as per organizational policy				
NOS Total		30	70		

NOS/Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Employability Skills (30 Hours)	<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>				
	PC9. use various financial products and services safely and securely				
	PC10. calculate income, expenses, savings etc.	3	4		
	PC11. approach the concerned authorities for any exploitation as per legal rights and laws				
	<i>Essential Digital Skills</i>				
	PC12. operate digital devices and use its features and applications securely and safely	4	6		
	PC13. use internet and social media platforms securely and safely				
	<i>Entrepreneurship</i>				
	PC14. identify and assess opportunities for potential business	3	5		
	PC15. identify sources for arranging money and associated financial and legal challenges				
	<i>Customer Service</i>				
	PC16. identify different types of customers	2	2		

	PC17. identify customer needs and address them appropriately				
	PC18. follow appropriate hygiene and grooming standards				
	<i>Getting ready for apprenticeship & Jobs</i>				
	PC19. create a basic biodata				
	PC20. search for suitable jobs and apply	1	3		
	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:

Assessment is done through CSDCI affiliated Assessment Agencies. Assessors are trained & certified by CSDCI after Training Of Assessor (TOA) program. Assessments is conducted to gauge and assess the trainee's skill and knowledge competency in the specified areas. The assessment will have both theory and practical components in 30:70 ratio for **Helper Electrician** job role.

During the practical task, trainees are assessed on their workmanship, quality of finished product and time management. They will be graded for all their assessments based on the approved assessment strategy which is signed off by CSDCI. The Assessor submits an assessment plan to CSDCI prior to assessments.

The assessment plan contains the following information:

- What will be assessed, i.e. the competency based on each NOS based on theory and practical questions
- How assessment will occur i.e. methods of assessment
- When the assessment will occur
- Duration of assessment
- Where the assessment will take place i.e. context of the assessment (workplace/simulation)
- The criteria for decision making i.e. those aspects that will guide judgments
- Where appropriate, any supplementary criteria used to make a judgment on the level of performance.

2. Testing Environment:

- Training partner shares the batch start date and end date, number of trainees and the job role.
- Assessment will be fixed for a day after the end date of training. It could be next day or later. Assessment will be conducted at the training venue/test center.
- The knowledge/theory assessments is conducted with proper seating arrangements with enough space between the candidates to prevent mal-practicing.
- Question set for theory and practical will be distributed to each candidate by the Assessor. Theory testing will include multiple choice questions, pictorial question, etc. which will test the trainee on his theoretical knowledge of the subject. The skill /practical assessments will be conducted in the approved test centers. The training provider will ensure adequate tools and materials are available to conduct the practical test.
- If number of candidates are more than 30, more assessors will be organized on same day to complete the assessment.
- The assessment has to comprise of two components, namely:

- Knowledge assessment (theory/viva assessment)
- Skill assessment (practical/hands-on skill assessment)

3. Mode of assessment:

- Demonstration/Practical for Performance /Skill Assessment
- Synoptic multiple-choice question test
- Viva for Knowledge Assessment

4. Performance/skill assessment:

- The performance/skill assessment will be conducted through demonstration/practical
- For the practical test trainees are assessed through a given task, which they have to complete correctly for them to be marked as passed.
- The assessment is conducted in a simulated working environment. Due to this fact, the assessors must note that the naturally occurring evidence of competence is unavailable or infrequent. Simulation must be undertaken in a Realistic Working Environment which provides an environment that replicates the key characteristics of the workplace in which the skill to be assessed is normally employed.

5. Knowledge Assessment:

- The knowledge assessments are conducted through written test/ viva.
- Synoptic test is used for this. It is an MCQ (Multiple Choice Question) test which are prepared externally and externally marked, meaning by agency having no link with training partners. The test may be conducted by the assessor in the oral mode, if required, considering the lack of reading and comprehending acumen (skills) of trainees. In such cases, the assessor will mention it on top of the MCQ submitted to CSDCI.
- The assessment strategy, weightage and duration of assessment for **Helper Electrician** is summarized below

Assessment Type	Formative or Summative	Strategies	Weightage	Duration (hours)
Knowledge	Summative	MCQ/Viva	30	1.5
skill	Summative	Structured Practical Task	70	5.5

6. Assessment Quality Assurance framework:

- CSDCI has developed assessment criteria framework for each Qualification pack as per National Occupational Standards. The criteria framework includes weightages/marks for each criterion under knowledge and skill. The criteria ensure quality assurance as it ensures valid, consistent and fair assessments at all locations. Issued to the affiliated Assessment body. The Assessment body develop questions based on CSDCI issued assessment criteria.
- Evidences in the form of answer sheets in case of knowledge assessments are collected. For skill assessments videos and photographs are prepared as evidence. These are submitted by the assessor to the assessment agency. CSDCI does random checks of the same with the participant/ trainee's ID and ascertains authenticity and validity of assessments.

- The training partner will intimate the time of arrival of the assessor and time of leaving the venue. Random spot checks/audit is conducted by CSDCI to monitor assessment.

7. Methods of Validation:

- Unless the trainee is registered, the person cannot undergo assessment. To further ensure that the person registered is the person appearing for assessment, ID verification is carried out. Aadhar card number is part of registering the candidate for training. This forms the basis of further verification during the assessment.
- Assessor conducts the assessment through theory and practical questions developed in accordance with the assessment criteria and guidelines issued by CSDCI. This too is verified by random audits carried out by CSDCI.
- Evidences for assessments are to be collected and submitted to CSDCI for verification as per demand.
- Assessment agency is responsible to put details in SIP. CSDCI will also validate the data and result received from the assessment agency.

8. Method of assessment documentation and access:

- The assessment agency will upload the result of assessment in the portal. The data will not be accessible for change by the assessment agency after the upload. The assessment data will be validated by CSDCI assessment team. After upload, only CSDCI can access this data.
- CSDCI approves the results within five days after which results are uploaded on SIDH by Assessment Agency.

9. On the Job:

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

Annexure: Acronym and Glossary

Acronym	Description
MSDE	Ministry of Skill Development and Entrepreneurship
NCVET	National Council for Vocational Education and Training
NSDC	National Skill Development Corporation
SIDH	Skill India Digital Hub
CSDCI	Construction Skill Development Council of India
AB	Awarding Body
SSC	Sector Skill Council
PMKVY	Pradhan Mantri Kaushal Vikas Yojana
DDU-GKY	Deen Dayal Upadhyaya Grameen Kaushalya Yojana
SANKALP	Skill Acquisition and Knowledge Awareness for Livelihood Promotion
STRIVE	Skills Strengthening for Industrial Value Enhancement
JSS	Jan Shikshan Sansthan
STT	Short Term Training
RPL	Recognition of Prior Learning
NAPS	National Apprenticeship Promotion Scheme
AA	Assessment Agency
TP	Training Provider / Training Partner
TC	Training Centre
ITI	Industrial Training Institute
NSQC	National Skill Qualification Committee
NSQF	National Skills Qualification Framework
Q-File	Qualification File
QP	Qualification Pack
MC	Model Curriculum
NOS	National Occupational Standards
PC	Performance Criteria
KU	Knowledge and Understanding
GS	Generic Skills
MCQ	Multiple Choice Question

EHS	Environment Health and Safety
PPE	Personal Protective Equipment
QA/QC	Quality Assurance / Quality Control
LT	Low Tension (Electrical wiring system up to 1kV)
HT	High Tension (Electrical wiring system above 1kV)
MCB	Miniature Circuit Breaker
ELCB	Earth Leakage Circuit Breaker
RCCB	Residual Current Circuit Breaker
RCBO	Residual Current Breaker with Overcurrent
ACSR	Aluminium Conductor Steel Reinforced
PVC	Polyvinyl Chloride (used in electrical wiring insulation)
XLPE	Cross-Linked Polyethylene (used in power cables)
SMPS	Switched Mode Power Supply
IP Rating	Ingress Protection Rating (for electrical enclosures)
VFD	Variable Frequency Drive (used for motor speed control)
DOL Starter	Direct-On-Line Starter (used for motors)
CT	Current Transformer
PT	Potential Transformer
LED	Light Emitting Diode
UPS	Uninterruptible Power Supply
DG Set	Diesel Generator Set

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

Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do it upon the completion of the training.
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.

Annexure: Career Progression

