



Please refer [Guidelines for STT/Apprenticeship/OEM Qualification File](#)

QUALIFICATION FILE

Junior Engineer – Power Distribution

☒ 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: 5

Submitted By: Chief Executive Officer

Power Sector Skill Council,

B-17, Qutab Institutional Area Road, New Delhi - 110016

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Section 1: Basic Details

1.	Qualification Name	Junior Engineer – Power Distribution	
2.	Sector/s	Power	
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved)	Qualification Name of existing/previous version: Junior Engineer – Power Distribution Version - 4
4.	a. OEM Name b. Qualification Name (Wherever applicable)	Junior Engineer – Power Distribution	
5.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval)	QG-05-PW-01872-2025-V2-PSSC	6. NCrF/NSQF Level: 5
7.	Award (Certificate/Diploma/Advance Diploma/Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate	
8.	Brief Description of the Qualification	This program is for training the candidates to become competent as a Junior Engineer - Power Distribution, who is responsible for installation of a power distribution system and operation, maintenance, testing & inspection of 33/11 substation.	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification &Relevant Experience: 12th + 2 years Diploma in Electrical/ Electronics/ Instrumentation Engineering OR 10th + 3 years Diploma in Electrical/ Electronics/ Instrumentation Engineering + 1.5-year relevant Experience OR Completed 2nd year of B.E./B.Tech in Electrical/ Electronics/ Instrumentation Engineering OR Previous relevant Qualification of NSQF Level 4 with minimum 3 years relevant experience OR Previous relevant Qualification of NSQF Level 4.5 with 1.5 years relevant experience	

10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	20	11. Common Cost Norm Category (I/II/III) (wherever applicable): I																					
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	N/A																						
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>192</td> <td>318</td> <td>90</td> <td></td> <td>600</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <i>(Refer Blended Learning Annexure for details)</i>					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	192	318	90		600	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	192	318	90		600																			
Online																								
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)	Engineer Distribution(6)																						
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi Translation work is in process & it will be submitted shortly																						
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	Women candidates can be encouraged to join this job role/Qualification by giving them job opportunities & making them industry ready in Power Sector																						
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☐ Yes ☒ No																						
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☒ Yes ☐ No Colleges ☒ Yes ☐ No																						

22.	Name and Contact Details of Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Dr. V K Singh Email: ceo@psscindia.org Contact No.: 91-11-40793153, 40793152 Website: www.psscindia.org	
23.	Final Approval Date by NSQC: 08-05-2025	24. Validity Duration: 3 Years	25. Next Review Date 07-05-2028

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core /Non -Core	NCrF/NS QF 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.	Carry out installation in power distribution systems	PSS/N2110 Version 1.0	Core	5	7	60	105	45		210	30	70			100	35
2.	Carry out operation and maintenance of power distribution system	PSS/N2104 Version 2.0	Core	5	6.5	58	102	35		195	30	70			100	35
3.	Automation and IoT in Power Distribution	PSS/N2414 Version 1.0	Core	5	1	12	18	0		30	30	70			100	10
4.	Apply basic health and safety practices for power related work	PSS/N1338 Version 2.0	Non-Core	2	1.5	18	20	7		45	39	61			100	5
5.	Work effectively with others	PSS/N1336 Version 2.0	Non-Core	3	1	10	20			30	34	56			90	5
6.	Optimize resource utilization at workplace	PSS/N1201	Non-Core	3	1	10	17	3		30	13	26			39	5

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core /Non -Core	NCrF/NS QF 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)
		Version 1.0														
7.	Employability Skills (60 Hours)	DGT/VSQ/ N0102	Non-Core	5	2	24	36			60	20	30			50	5
Duration (in Hours) / Total Marks					20	192	318	90		600	196	383			579	100

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF 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.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF 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.																
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

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

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.)

Minimum Pass Percentage –NOS/Module-wise:70%(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)	BE/ BTech /Electrical Engineering of 1 year as Engineer in State power utility or with turnkey contractors Or Diploma Electrical Engineering of 3 years as Junior Engineer in State power utility or with turnkey contractors working in erection of power distribution lines and sub-stations etc.																																									
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<table><tr><th colspan="4">Master Trainers (Power Distribution) -Score Matrix</th></tr><tr><th>S.No.</th><th>Parameter</th><th>Category</th><th>Score</th></tr><tr><td rowspan="2">1</td><td rowspan="2">Qualification</td><td>B.E/ Btech (Electrical)</td><td>50</td></tr><tr><td>Diploma(Electrical)</td><td>45</td></tr><tr><td rowspan="3">2</td><td rowspan="3">Experience(in Years)</td><td>>20</td><td>45</td></tr><tr><td>15 to 20</td><td>40</td></tr><tr><td>10 to 15</td><td>35</td></tr><tr><td rowspan="3">3</td><td rowspan="3">Training Experience (in Years)</td><td>> 5</td><td>3</td></tr><tr><td>2 to 5</td><td>2</td></tr><tr><td><2</td><td>1</td></tr><tr><td>4</td><td>Familiarity with Skilling Eco System</td><td>Yes</td><td>1</td></tr><tr><td>5</td><td>TOT Platform Skills Qualified by MEPSC</td><td>Yes</td><td>1</td></tr></table>				Master Trainers (Power Distribution) -Score Matrix				S.No.	Parameter	Category	Score	1	Qualification	B.E/ Btech (Electrical)	50	Diploma(Electrical)	45	2	Experience(in Years)	>20	45	15 to 20	40	10 to 15	35	3	Training Experience (in Years)	> 5	3	2 to 5	2	<2	1	4	Familiarity with Skilling Eco System	Yes	1	5	TOT Platform Skills Qualified by MEPSC	Yes	1
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		10 to 15	35																																								
3	Training Experience (in Years)	> 5	3																																								
		2 to 5	2																																								
		<2	1																																								
4	Familiarity with Skilling Eco System	Yes	1																																								
5	TOT Platform Skills Qualified by MEPSC	Yes	1																																								

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	N/A

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	BE/ BTech /Electrical Engineering of 1 year as Engineer in State power utility or with turnkey contractors Or Diploma Electrical Engineering of 3 years as Junior Engineer in State power utility or with turnkey contractors working in erection of power distribution lines and sub-stations etc.																																	
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	BE/ BTech /Electrical Engineering of 1 year as Engineer in State power utility or with turnkey contractors Or Diploma Electrical Engineering of 3 years as Junior Engineer in State power utility or with turnkey contractors working in erection of power distribution lines and sub-stations etc.																																	
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	<table><tr><th colspan="4">Master Trainers (Power Distribution) -Score Matrix</th></tr><tr><th>S.No.</th><th>Parameter</th><th>Category</th><th>Score</th></tr><tr><td rowspan="2">1</td><td rowspan="2">Qualification</td><td>B.E/ Btech (Electrical)</td><td>50</td></tr><tr><td>Diploma(Electrical)</td><td>45</td></tr><tr><td rowspan="3">2</td><td rowspan="3">Experience(in Years)</td><td>>20</td><td>45</td></tr><tr><td>15 to 20</td><td>40</td></tr><tr><td>10 to 15</td><td>35</td></tr><tr><td rowspan="3">3</td><td rowspan="3">Training Experience (in Years)</td><td>> 5</td><td>3</td></tr><tr><td>2 to 5</td><td>2</td></tr><tr><td><2</td><td>1</td></tr></table>				Master Trainers (Power Distribution) -Score Matrix				S.No.	Parameter	Category	Score	1	Qualification	B.E/ Btech (Electrical)	50	Diploma(Electrical)	45	2	Experience(in Years)	>20	45	15 to 20	40	10 to 15	35	3	Training Experience (in Years)	> 5	3	2 to 5	2	<2	1
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		2 to 5	2																																
		<2	1																																

		4	Familiarity with Skilling Eco System	Yes	1	
		5	TOT Platform Skills Qualified by MEPSC	Yes	1	
4.	Assessment Mode (Specify the assessment mode)	Online/Offline				
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No (details to be provided in Annexure-if it is different for Assessment)				

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years)(Yes/No): N/A
2.	Latest Market Research Reports or any other source (not older than 2years) (Yes/No): N/A
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 30
5.	Estimated nos. of persons to be trained and employed: 600
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: N/A If "No", why:

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 (Mandatory)	Mentioned in Qualification Files
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Mentioned in Model Curriculum
4.	Annexure: Assessment Strategy(Mandatory)	Mentioned in Model Curriculum
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is “Blended Learning”)	N/A
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	N/A
7.	Annexure: Acronym and Glossary (Optional)	Mentioned in Model Curriculum & in Qualification Files
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Attached
9.	Supporting Document: Career Progression (Mandatory - Public view)	Mentioned in Qualification Files
10.	Supporting Document: Occupational Map (Mandatory)	Attached
11.	Supporting Document: Assessment SOP (Mandatory)	Attached
12.	Any other document you wish to submit:	N/A

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/outcome of the qualification	How the job role/outcome relate to the NCrF/NSQF level descriptors	NCrF/NSQF Level
Process	Under limited supervision carry out installation, operation & maintenance, testing & inspection of 33/11 Substation to last mile consumer supply including distribution transformer, Overhead (O/H) Line, Underground (U/G) cabling, Geographic Information System (GIS), Supervisory Control And Data Acquisition (SCADA) system, revenue process management etc. Testing and inspection of distribution system on pre and post commissioning. Carry out operation and maintenance of distribution system- Service cables, meters, distribution boxes Work requires the ability to perform engineering and coordination activities in the work place. Work also involve bending, walking, and standing for significant periods of time. Candidate will be exposed to different types of power supply areas and irregular terrain. Periodic night-time work is also required.	Job that requires well developed skill, with clear choice of procedures in familiar context And testing and inspection of distribution system on pre and post commissioning. Hence, it qualifies as a Level 5 role. Since it does not involve situation of clear choice, the role does not qualify for Level 4.	5
Professional knowledge	• common electricity terminology and correct interpretation of the same • terminology: e.g. Current, Voltage, Resistance, Kilowatt (kw), Kilowatt hour • (kwh) • distribution system plant and equipment • entire value chain of distribution system • technical parameter and its function of power distribution equipment • smart grid, AMR, AMI and automation system	The job holder is expected to have Knowledge of facts, principles, processes and general concepts, in a field of work or study. The role qualifies for Level 5. The job holder is expected to be familiar with all machines and equipment's. He/she is not expected to have ONLY Factual knowledge of field of knowledge or study and technical parameter and its function of power distribution equipment. It cannot be pegged at level 4.	5

NCrF/NSQF Level Descriptors	Key requirements of the job role/outcome of the qualification	How the job role/outcome relate to the NCrF/NSQF level descriptors	NCrF/NSQF Level
	- metering, billing and collection system also customer care service - importance of reporting problems in a timely manner - ratings and specifications of cables, fuses, switches and wires - handling all machineries, equipment & vehicles - appropriate judgment and initiative pertaining to work methods and tools - technical manuals, blueprints, schematics, diagrams, plans, specifications - estimate time, material and equipment needed to complete assignments - quality parameters, quality assessment based on physical parameters - metering system and its installation - service line connection process		
Professional skill	- follow organization rule-based decision making process - take decisions with systematic course of actions and/or response - planning and organization of tasks to meet deadlines - record keeping, documentation - build customer relationships and use customer centric approach - seek and comprehend operation related inputs for clarification	The job holder is expected to have a range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information and planning and organization of tasks to meet deadlines, the role qualifies for Level 5.	5

NCrF/NSQF Level Descriptors	Key requirements of the job role/outcome of the qualification	How the job role/outcome relate to the NCrF/NSQF level descriptors	NCrF/NSQF Level
	- find ways of modifying difficult operating stages to make it operation friendly - apply domain information to set and define operation parameters that ensures economy and quality of the product - critically evaluate operation parameters in relation to product features intended - develop a holistic and comprehensive profile of products based on segregated discrete process stages		
Core skill	- apply understanding of power distribution system - apply knowledge of type of distribution systems with respect to voltage level, network configuration (ring main/redial etc.) - apply understanding of cables/conductors their size and specifications - carry out erection and commissioning of substation - carry out the route survey for O/H line or U/G cable distribution supply - carry out installation of distribution transformer - supervise erection of line poles, substation, O/H line or U/G cable, switchgear etc - plan and execute service line connection for customers - ensure that all the tools & equipment needed for erection or installation are available at site - undertake meter installation at customer premises - apply knowledge of SCADA and GIS Mapping - ensure proper earthing of equipment for healthy operation	The job holder is expected to have Desired mathematical skill; understanding of social, political; and some skill of collecting and organising information, communication and plan and execute service line connection for customers. The role qualifies for Level 5.	5

NCrF/NSQF Level Descriptors	Key requirements of the job role/outcome of the qualification	How the job role/outcome relate to the NCrF/NSQF level descriptors	NCrF/NSQF Level
	• undertake installation of protection devices- surge protection device, over voltage protection etc. • read and understand network schematic, line diagrams and related technical drawings • coordinate and manage all the logistics, material planning and handling related issues • monitor power supply from substation during work in progress • test and inspect transformer, switchgear etc. on post commissioning • have operational familiarity with tools and tackles • be responsible for mobilizing resources • coordinate with seniors and also monitor with workers/helpers • use of PPE: e.g. safety helmet, safety glove, safety shoe, climbing harness, lanyard and tool belt (when climbing), earth rod (discharge rod), safety rope ,ladder etc. • inspect substation equipment, power transformer, distribution transformer, switchgear, overhead lines, insulators and other related equipment for identification of faults, possible wear and tear and to assess requirement of proactive preventive maintenance and breakdown maintenance on need basis. • carry out/monitor/supervise maintenance related activities pertaining to equipment installed in sub stations • apply understanding of revenue process management viz. release of new connection, meter installation, meter		

NCrF/NSQF Level Descriptors	Key requirements of the job role/outcome of the qualification	How the job role/outcome relate to the NCrF/NSQF level descriptors	NCrF/NSQF Level
	reading, bill generation, bill distribution, revenue collection • apply understanding of various consumer categories and applicable tariffs • carry out/monitor/supervise maintenance of O/H line and U/G cable • check all the intersections & joints(termination) in the wiring or cable • check the running parameter of distribution system as per design standard • monitor working condition of transformer (overloading/under loading) and other equipment • locate the conduit, cables & other undergoing devices to perform maintenance work • apply understanding of metering technologies (electronic meter, Automated meter reading, smart meter etc.) • monitor performance of critical system such as Remote Terminal Units, Remote Metering Units and other automation system • carry out routine maintenance • carry out all the testing equipment like tester, multimeter, control cable etc. • test the system parameter to know abnormal condition of the system • test the healthiness of connected equipment • maintain log of system condition (parameters) • undertake software upgradation and testing		

NCrF/NSQF Level Descriptors	Key requirements of the job role/outcome of the qualification	How the job role/outcome relate to the NCrF/NSQF level descriptors	NCrF/NSQF Level
	• carry out repair and replacement of faulty/ unhealthy equipment • troubleshoot faulty system • upgrade or modify the existing unhealthy equipment/system • carry out general routine repair work • implement technical change in equipment/system • use of PPE: e.g. safety helmet, safety glove, safety shoe, climbing harness, lanyard and tool belt (when climbing), earth rod (discharge rod), safety rope, ladder etc.		
Responsibility	Responsibility for own work and learning and some responsibility for other's works and learning	The job holder is expected to take up Responsibility for own work and learning and some responsibility for others' works and, implement technical change in equipment/system.	5

Annexure: Tools and Equipment(Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Screw Driver	As per requirement	15
2.	Phase Tester	As per requirement	5
3.	Combination Pliers	As per requirement	5
4.	Nose Pliers	As per requirement	5
5.	Spanner Set	As per requirement	5
6.	Adjustable Wrench	As per requirement	5
7.	Pipe Wrench	As per requirement	5
8.	Measuring Tape	As per requirement	3
9.	Hack Saw	As per requirement	3
10.	Hammer	As per requirement	5
11.	Chisel	As per requirement	5
12.	Files	As per requirement	3
13.	Wood Saw	As per requirement	3
14.	Poker	As per requirement	5
15.	Center Punch	As per requirement	5
16.	Crimping Tool	As per requirement	5
17.	Portable Electric Drill Machine	As per requirement	3
18.	Bench Vise & Line Vise	As per requirement	3

19.	Soldering Iron	As per requirement	3
20.	Blow Lamp	As per requirement	5
21.	Cable Socket Punching Tool	As per requirement	3
22.	Digital Multimeter	As per requirement	2
23.	Clip On Meter Or Clamp On Tester	As per requirement	4
24.	Hi-Pot Set	As per requirement	1
25.	Megger (Analogue)	As per requirement	2
26.	Earth Tester	As per requirement	2
27.	Neon(Power) Tester	As per requirement	1
28.	Transformer Oil Testing Kit *	As per requirement	1
29.	Discharge Rod	As per requirement	1
30.	Ladder	As per requirement	1
31.	Helmet	As per requirement	5
32.	Gloves	As per requirement	5
33.	Danger Sign Board	As per requirement	1
34.	Safety Belt	As per requirement	1
35.	Safety Sign Board	As per requirement	1
36.	Safety Boot	As per requirement	1
37.	Tagging	As per requirement	3
38.	Rubber Mat	As per requirement	1
39.	Mask	As per requirement	1

40.	Double Test Lamp	As per requirement	3
41.	Clamp 'On' Tester Or Clip 'On' Meter To Test Line Current	As per requirement	3
42.	Multi Meter To Test Continuity And Polarity Of Ct'S With The Help Of 1.5 Volt Dc Cell	As per requirement	3
43.	Accuracy Test With Portable Standard Meter (Accucheck Etc. Optional)	As per requirement	1
44.	Drill M/C With Drill Bit For Mounting Energy Meter And Meter Box	As per requirement	3
45.	Cable Socket Punch Tool	As per requirement	1
46.	Single Phase Energy Meter (Electronic)	As per requirement	3
47.	Lt Three Phase Whole Current Energy Meter (Electronic)Of Any Rating Not Above 100 A	As per requirement	2
48.	Lt Ct Energy Meter Electronic (3P4W, 3X-/5A, 3X240V) Or Of Any Rating Not Above 100/5A	As per requirement	2
49.	Lt Ct'S Combination Of 3 Or 4 (As Per Meter) Ofany Rating Not Above 100/5A	As per requirement	2
50.	Service Cable	As per requirement	1

51.	Load Like Set Of 100W, 200W Lamps, Heaters, Motors Water Pump Etc	As per requirement	1
52.	CT/PT Ratio Tester *	As per requirement	1
53.	Relay Test Bench *	As per requirement	1
54.	Thermo Vision Camera	As per requirement	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Laptop/Computer
2. Chairs
3. LCD
4. Projector
5. Board
6. White Board Maker
7. Table

Annexure: Industry Validations Summary

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

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Raj Traders	Ms. Anuradha Gupta	Propreitor	186-B, Hari Nagar Ashram New Delhi 110014	9818982324		
2	Sanjay Power Projects Pvt. Ltd.	Shri Sanjay Sharma	Director	Gali No. 8, Rajgarh Colony, Delhi 110031	9818391832		
3	Bryn Construction Co.	Shri Yogendra Gupta	Propreitor	186-B, Hari Nagar Ashram New Delhi 110014	9811098990		
4	NACOF	Shri Suraj Rawat	State Manager (Delhi)	Flat No. 101, 1st floor, Devika Tower - 6, Nehru Place, New Delhi 110019	9540015452	operations@nacof-india.com	
5	Distil Ventures India Limited	Shri Sushant Kumar	Managar - HR	A1, 2nd floor, FIEE Complex, Okhla Industrial area, Phase II, South East Delhi, New Delhi 110020	9205666352	sushant@distilgroup.com	
6	TDS Management Consultant Pvt. Ltd.	Shri Rahul Banerjee	Group President		9958455223	rahul.banerjee@tdsgroup.in	
7	BSES Yamuna Power Ltd.	Shri Sunil Kumar Gupta	Vice President	Shakti Kiran Building			

				Karkardooma, Delhi 110092			
8	Pee Kay Electric Works	Shri Pramod Kumar Gupta	Propreitor	E-4, West Jyoti Nagar, Delhi 110094			
9	Hi-Tech Engineers	Shri Kushagra Gupta	Propreitor	E-4, Rishi Kardam Marg, West Jyoti Nagar, Delhi 110094			
10	Yogi Enterprise	Shri Santosh Kanvar		Nokha Sujana Pur Road, Nokha Bikaner, Rajasthan - 334803	9024023433	santoshkanvaryogi@gmail.com	
11	AWI Construction	Shri Bhupender Singh	Engineer		7974248323	awiconstruction2017@gmail.com	
12	Jagdamba 01 Construction Company	Shri Kuldeep Singh Sekhawat		01 Richpal Singh Village, Binjast	9783033323	jagdamba01constructioncompany@gmail.com	
13	Hira Lal Shah	Shri Hera Lal Shah	Manager	Navtolia, Gopalpur, Mheshpur, Distt. Khadiya, Khagaria	7779889850	mkmitileshkumar1999@gmail.com	
14	Ashok Enterprises	Shri Shankar Ram	Manager	Balasar, Nagaur, Rajasthan 341001	9950283427	shankergour084@gmail.com	
15	Yogi Contruuction	Shri Bahadur Singh		Durgaliya, Nokha, Bikaner, Rajasthan - 334803	8696808034	bahadursinghyogi@gmail.com	
16	Gyansri Enterprises	Shri Santosh Kumar Barnwal		Baghmara, Dhanbad,	9608897099	skumarbarnwal86@gmail.com	

				Jharkhand - 828306			
17	Surya Con Engineer	Shri Vijay		Vishwash Nagar	9999990529		
18	Paras Electromech	Shri Anil Jain	Propreitor	UG-5, parmish Bino Center Karkardooma Community Center, Delhi 110092			
19	Cheena & Company	Shri Chena Ram	Partner		9312798243		
20	Paras Enterprises	Shri Vijay Singh	Propreitor	216 Behari Colony, Shd, Delhi	9650328287		
21	Gypeam Structure India Pvt Ltd	Shri N L Gay	Director		9810032703		
22	Gungun Enterprises	Shri Mukesh Kumar	Owner	PO: Hardoi, Distt. Hardoi, UP	8107992157	gungunenterprises@gmail.com	
23	New Ape Techno Pvt Ltd	Shri Anwar Alam	Manager	Delhi 110092	9891921804		
24	Shiv Shanker Engineers	Shri Dharendra Yadav	Engineer	Jharodakalan, Delhi	7398009310	shivshankerengineer@gmail.com	
25	S S & Company	Shri Dashrath Singh	Supervisor	WZ-1254 A , Nangla Rai, JKP	7080927350	shyamsinghhridaypur@gmail.com	
26	Ram Enterprises	Shri Ram Saran	Propreitor	VPO Ward No. 09, Near Shiv Mandir, Shop No, Bhamatsar, Nokha	8955779655		
27	DKVS Pvt Ltd	Shri Dangur Kaushik	Engineer		8200646171	Kidangur1236@gmail.com	

28	Maa Annapoorna Construction	Shri Prem Prakash Singh	Partner		700466266		
29	Raheeq Infra Tech Pvt Ltd	Shri Ahmad Baba		Hotel Grand Star, Opposite Civil Secestrate Srinagar, Jammu & Kashmir	700672271		
30	YEO Social Ventures Pvt Ltd	Shri Zaroot Tabasum	Director	Govt. Housing Colony, Chnapora, Srinagar 190015	8491017999		

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
2025-2026	100	70-75%	5	3	N/A	N/A
2026-2027	200	70-75%	10	3	N/A	N/A
2027-2028	300	70-75%	15	3	N/A	N/A

Data to be provided year-wise for next 3 years

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
1	2022-2025	1303	1097	1097	N/A	132	129	129	N/A	N/A	N/A	N/A	N/A

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.
- 2.

Content availability for previous versions of qualifications:

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

Languages in which Content is available:

English, Hindi

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	Laptop, Computer, LCD, Projector, Board	
2	☒ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	Laptop, Computer, LCD, Projector, Board	
3	☒ Showing Practical Demonstrations to the learners	Laptop, Computer, LCD, Projector, Board	
4	☒ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Laptop, Computer, LCD, Projector, Board	
5	☒ Tutorials/ Assignments/ Drill/ Practice	Laptop, Computer, LCD, Projector, Board	
6	☒ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Laptop, Computer, LCD, Projector, Board	
7	☒ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	Laptop, Computer, LCD, Projector, Board	

Annexure: Detailed Assessment Criteria

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

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks
PSS/N2110: Carry out installation in power distribution systems	PC1. identify the tools and equipment needed for erection or installation	3	7
	PC2. carry out the route survey for O/H line or U/G cable distribution supply and erection and commissioning of substation	4	10
	PC3. read network schematics, line diagrams and related technical drawings of the distribution system	3	7
	PC4. carry out installation of distribution transformer, protection devices such as surge protection device, over voltage protection etc. and energy meters for customers	5	12
	PC5. supervise erection of line poles, substation, O/H line or U/G cable, switchgear etc.	4	12
	PC6. monitor power supply from substation during work in progress	3	6
	PC7. inspect and test the transformer, switchgear etc. on post commissioning	5	10
	PC8. coordinate and manage all the logistics, material planning and handling related issues	3	6
	NOS Total	30	70
	PC1. plan routine maintenance related activities for the equipment installed in sub stations, O/H line and U/G cable.	4	10
	PC2. inspect substation equipment, power transformer (overloading/under loading), distribution transformer, switchgear, overhead lines, insulators and other related equipment for identification of faults, possible wear and tear	5	10

PSS/N2104: Carry out operation and maintenance of power distribution system	PC3. check all the intersections and joints (termination) in the wiring or cable	3	6
	PC4. locate the conduit, cables and other undergoing devices to perform maintenance work	2	5
	PC5. monitor performance of critical systems such as Remote Terminal Units, Remote Metering Units and other automation system	3	5
	PC6. use all the testing equipment like tester, multimeter, control cable etc. for testing of the system	3	7
	PC7. test the system parameter to know abnormal condition of the system and healthiness of the connected equipment	2	6
	PC8. undertake software upgradation and testing	1	4
	<i>Troubleshooting and repairing of faulty equipment</i>	7	17
	PC9. carry out troubleshooting and repairing of faulty or unhealthy equipment	3	6
	PC10. upgrade or modify the existing unhealthy equipment/system	2	6
	PC11. implement technical change in equipment/system	2	5
	NOS Total	30	70
PSS/N2414: Automation and IoT in Power Distribution	PC1. identify automation and IoT-based devices used in power distribution systems such as smart meters, fault indicators, RTUs, and data loggers	4	8
	PC2. assist in installation and commissioning of IoT-enabled devices in 33/11kV substations and last-mile supply systems	4	8
	PC3. verify power supply, communication interface, and connectivity requirements for field-installed automation equipment	5	10

	PC4. support field configuration and functional testing of smart meters, IoT sensors, or remote indicators as per instructions	4	8
	PC5. conduct visual and basic electrical checks for installed devices to ensure functional status and safety	3	6
	<i>Monitor and Report IoT Device Performance</i>	10	30
	PC6. collect basic operational data from IoT devices and assist in connecting them to SCADA/control room dashboards	4	12
	PC7. escalate unresolved connectivity or device errors to higher-level engineers or OEM vendors	4	12
	PC8. record field observations, test results, and report issues using standard documentation formats	2	6
	NOS Total	30	70
PSS/N1338: Apply basic health and safety practices for power related work	PC1. use protective clothing/equipment for specific tasks and work conditions Protective clothing: leather or asbestos gloves, flame proof aprons, flame proof overalls buttoned to neck, cuff less (without folds) trousers, reinforced footwear, helmets/hard hats, cap and shoulder covers, ear defenders/plugs, safety boots, knee pads, particle masks, glasses/goggles/visors Equipment: hand and face shields, machine guards, residual current devices, shields, dust sheets, respirator	3	5
	PC2. identify job-site hazards and possible causes of risks/accident at the workplace Hazards: electrical hazards; sharp edged and heavy tools; heated metals; oxyfuel and gas cylinders; welding radiation; hazardous surfaces; hazardous substances; physical hazards	3	2

	possible causes of risk and accident: physical actions; not following instructions; inattention; sickness and incapacity; health; not taking safety precautions		
	PC3. use standard safe working practices when working at heights, confined areas, trenches and with electrical equipment	3	5
	PC4. follow warning signs and symbols while working with electrical systems Warning signs: Danger plate, high voltage area, out of service, etc.	2	2
	PC5. ensure positive isolation of electrical equipment and system as per the given standards	2	4
	PC6. identify any abnormalities in electrical equipment or system viz temperature, pressure, flow of current etc.	2	4
	PC7. use various methods of accident prevention in the work environment	2	0
	PC8. use proper scaffolds, elevated platforms and ladders for working at height	2	3
	PC9. inspect various tools and plants (T & P) routinely for any signs of oil, water leakages	2	3
	PC10. store flammable materials and machine lubricating oil safely and correctly	2	2
	PC11. check that the emission and pollution control devices are working properly in line with environmental policy standards	1	3
	PC12. inform the relevant authorities about any abnormal situation/behavior of any equipment/system without delay	1	3
	<i>Follow fire safety practices</i>	6	12

	PC13. use various appropriate fire extinguishers for different types of fires correctly Types of fires: Class A, B, C, D and E	3	5
	PC14. use appropriate rescue techniques during fire hazard	2	5
	PC15. use good housekeeping practices at all times to avoid accidental fire	1	2
	<i>Follow emergencies, rescue and first-aid procedures</i>	8	13
	PC16. administer appropriate first aid to the victims for the relevant injuries Injuries: Bleeding, burns, choking, electric shock, poisoning etc.	3	6
	PC17. act promptly and appropriately to an accident situation and administer basic first aid including CPR to the victims of cardiac arrest due to electric shock or medical emergency in real	2	5
	PC18. write an incident report and send the same to the authorized person	3	2
	NOS Total	39	61
PSS/N1336: Work effectively with others	PC1. accept information and instructions from the supervisor and fellow workers and seek clarification when required	2	4
	PC2. pass the information to the persons to all those concerns within agreed timeframe in a manner they can understand and confirm its receipt	1	4
	PC3. help & assist fellow workers in performing their tasks in a positive manner so as to maximize efficiency	2	4
	PC4. use appropriate tone, pitch and language while communicating to convey politeness, assertiveness, care and professionalism	4	6
	PC5. listen attentively and respond appropriately while interacting with others at work	3	6

	PC6. act responsibly and demonstrate disciplined behaviour at the workplace Disciplined behaviour: Punctuality; completing tasks within agreed timescales, ensuring quality standards; not gossiping and wasting time, honesty, etc.	3	5
	PC7. escalate grievances and problems to the appropriate authority as per the organisational procedure to resolve them and avoid conflict	3	3
	<i>Respect diversity</i>	16	24
	PC8. respect gender diversity in the workplace	4	6
	PC9. use respectful verbal, non-verbal and written communication that is gender, disability and culturally inclusive	4	6
	PC10. communicate with everyone without any personal bias based on gender, disability, caste, religion, colour, sexual orientation and culture	4	6
	PC11. recognize indicators of harassment and discrimination based on gender, disability, caste, religion, colour, sexual orientation and culture at workplace and follow organisational policy for reporting the same	4	6
	NOS Total	34	56
PSS/N1201: Optimize resource utilization at workplace	PC1. identify ways to optimize usage of material including water in various tasks/activities/processes	1	2
	PC2. check for spills/leakages in various tasks/activities/processes	1	2
	PC3. plug spills/leakages and escalate to appropriate authority if unable to rectify	1	2
	PC4. carry out routine cleaning of tools, machines and equipment	1	2
	<i>Energy/electricity conservation practices</i>	4	8

	PC5. identify ways to optimize usage of electricity/energy in various tasks/activities/processes	1	2
	PC6. check if the equipment/machine is functioning normally before commencing work and rectify wherever required	1	2
	PC7. report malfunctioning (fumes/sparks/emission/vibration/noise) and lapse in maintenance of equipment	1	2
	PC8. ensure electrical equipment and appliances are properly connected and turned off when not in use	1	2
	<i>Effective waste management/recycling practices</i>	5	10
	PC9. identify recyclable and non-recyclable, and hazardous waste generated	1	2
	PC10. segregate waste into different categories	1	2
	PC11. dispose non-recyclable waste appropriately	1	2
	PC12. deposit recyclable and reusable material at identified location	1	2
	PC13. follow processes specified for disposal of hazardous waste	1	2
	NOS Total	13	26
	Grand Total	196	383

DGT/VSQ/N0102: Employability Skills (60 Hours)

S. No	Module Name	Assessment Marks
1.	Introduction to Employability Skills	2
2.	Constitutional values - Citizenship	2
3.	Becoming a Professional in the 21st Century	6
4.	Basic English Skills	6
5.	Career Development & Goal Setting	3
6.	Communication Skills	4
7.	Diversity & Inclusion	2
8.	Financial and Legal Literacy	5
9.	Essential Digital Skills	8
10.	Entrepreneurship	4
11.	Customer Service	3
12.	Getting ready for Apprenticeship & Jobs	5
	Total	50

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.

Mention the detailed assessment strategy in the provided template.

<1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

On the Job:

1. Each module (which covers the job profile of Automotive Service Assistant Technician) will be assessed separately.
2. The candidate must score 60% in each module to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos of Trainees during OJT
4. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf