

QUALIFICATION FILE

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: 6

Submitted By:

Power Sector Skill Council,

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

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Section 1: Basic Details

1.	Qualification Name	Engineer - Power Distribution	
2.	Sector/s	Power	
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i>	Qualification Name of existing/previous version: Engineer - Power Distribution QG-06-PW-04248-2025-V2-PSSC
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>		
5.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval)</i>	QG-06-PW-04248-2025-V2-PSSC	6. NCrF/NSQF Level: 6
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate	
8.	Brief Description of the Qualification	The incumbent in the job works is responsible for power distribution system's erection and commissioning, operation & maintenance, testing & inspection of LT and HV systems and metering, billing, collection for distribution.	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: 4 years UG Degree in Electrical/ Electronics/Instrumentation Engineering Or 12th pass plus 2 years of Diploma in Electrical/ Electronics/ Instrumentation Engineering with 3 years of Experience Or Completed 10th + 3 years Diploma in Electrical/ Electronics/ Instrumentation Engineering with 4.5 years of relevant Experience Or Previous relevant Qualification of NSQF Level 5 with minimum 3 years relevant experience Or Previous relevant Qualification of NSQF Level 5.5 with 1.5 years relevant experience	
10.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	20	11. Common Cost Norm Category (I/II/III) <i>(wherever applicable): I</i>
12.	Any Licensing requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	NA	

13.	Training Duration by Modes of Training Delivery (<i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i>)	☒ Offline ☐ Online ☐ Blended					
		Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
		Classroom (offline)	192:00	318:00	90:00		600:00
		Online					
(Refer Blended Learning Annexure for details)							
14.	Aligned to NCO/ISCO Code/s (<i>if no code is available mention the same</i>)	NCO-2015/2151.0300					
15.	Progression path after attaining the qualification (<i>Please show Professional and Academic progression</i>)	Executive Engineer/Sr. Manager					
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	NA					
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	No gender sensitization					
20.	Are Greening/ Environment Sustainability Aspects Covered (<i>Specify the NOS/Module which covers it</i>)	☐ 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/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.	Oversee installation activities of power distribution system	PSS/N2109 Version 1.0	Core	6	6	70	110			180	30	70			100	20
2.	Supervise power distribution system operation and maintenance activities	PSS/N2108 Version 1.0	Core	6	5.5	58	107			165	30	70			100	30
3.	Smart Grid Automation and IoT Integration	PSS/N2107 Version 1.0	Core	6	1	10	20			30	30	70			100	20
4.	Apply basic health and safety practices for power related work	PSS/N1338 Version 2.0	Non-core	2	1.5	20	25			45	39	61			100	10
5.	Work effectively with others	PSS/N1336 Version 2.0	Non-core	2	1	10	20			30	34	56			90	10
6.	Employability Skills (60 hours)	DGT/VSQ/N0102	Non-core	5	2	24	36			60	20	30			50	10
7.	OJT				3			90		90						
Duration (in Hours) / Total Marks					20	192	318	90		600	183	357			540	100

Elective NOS/s:

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.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s:

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.																
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) with 2 years industry experience as 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)	BE/ BTech (Electrical) with 4 years industry experience as Engineer in State power utility or with turnkey contractors working in erection of power distribution lines and sub-stations etc.

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	

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	BE/ BTech (Electrical) with 2 years industry experience as 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) with 2 years industry experience as 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)	BE/ BTech (Electrical) with 4 years industry experience as Engineer in State power utility or with turnkey contractors working in erection of power distribution lines and sub-stations etc.
4.	Assessment Mode (Specify the assessment mode)	Blended (only theory)
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:
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Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

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

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	Oversee installation, operation & maintenance, testing & inspection of grid substation, distribution transformer, distribution network, O/H line, U/G cabling, GIS, SCADA, automation system, smart grid, metering, billing and collection etc. testing and inspection on pre and post	Job does not require well developed skill, with clear choice of procedures in familiar context. Hence, it cannot be pegged as a Level 5 This role demands wide range of specialized technical skill, clarity of knowledge and	6

	commissioning. Work is performed indoor as well as outdoors in all weather conditions. Work requires the ability to perform engineering and co-ordination activities as and when required. Periodic night-time work also required.	practice in broad range of activity involving standard non-standard practices and ability to perform engineering and co-ordination activities as and when required. Hence it qualifies as Level 6 Job role	
Professional and Technical Skills/ Expertise/ Professional Knowledge	• network layout, schematic and design drawing of substation • technical specification of distribution system equipment • policy and regulatory regime in the sector • design of distribution network based on prevailing planning and policy guidelines • load flow studies, sag and tension calculation, transient studies, vibration analysis, wind pressure analysis, short circuit studies etc. • various type of equipment protection system • ratings and specifications of line, transformer, cables, fuses, switches and wires • smart grid, AMR, AMI and automation system • handling of all machineries, equipment's & vehicles • use of appropriate judgment and initiative pertaining to work methods and tools	Job Holder expected to have factual and theoretical knowledge in broad contexts within a field of work or study, The role qualifies for Level 6. As the job holder is not expected to have ONLY Knowledge of facts, principles, processes and general concepts, in a field of work or study and design of distribution network based on prevailing planning and policy guidelines. It cannot be pegged at Level 5	6
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• follow organization rule-based decision-making process • take decisions with systematic course of actions and/or response • demonstrate leadership skill • understand importance of proper documentation • planning and organization of tasks to meet deadlines • build customer relationships and use customer centric approach • seek and comprehend operation related inputs for clarification • find ways of modifying difficult operating stages to make it operation friendly	S/he should have a range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study and, apply domain information to set and define operation parameters that ensures economy and quality of the product it is best suited for Level 6	6

	• 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		
Broad Learning Outcomes/Core Skill	• supervise and ensure entire power distribution system from substation to last mile consumers • demonstrate knowledge of types of distribution system network – ring main system, radial system, interconnected system etc. • manage load flow • supervise the installation of key equipment in power distribution system and ensure all technical specifications are inline • ensure voltage level using technology of different types of distribution system • read and analyze schematic drawings, engineering drawings, single line diagrams, lay out plans etc. • be aware of different types of transformers, poles, conductors, and cables • survey elements for creation of new service line connections • review engineering drawings, layout plans, technical specification of equipment • manage revenue across all processes in distribution chain from release of new connection to collection including meter installation, meter reading, bill generation, bill distribution etc. • demonstrate knowledge of equipment installed in power system • preparation of estimates and bill of quantities (BoQ)	S/he should be Reasonably good in mathematical calculation, understanding of social, political and, reasonably good in data collecting, organising information, supervise the installation of key equipment in power distribution system and ensure all technical specifications are inline and logical communication	6

	• overviewing of procurement function (modes and types- turnkey, supply & services etc.) material planning and handling; store handling methods • supervise route survey for O/H line, U/G lines and ROW, using best practices • review all types of protection system and earthing in distribution network • installation of transformer and associated equipment • take decision of use and installation of 1-phase and 3-phase metering system • understand and appreciate Smart grid, AMR, AMI and SCADA implementation and GIS mapping • supervise erection and commissioning of substation and line elements like different types of towers, O/H line, U/G cable, switchgear etc. • supervise installation of protection system- surge protection device, over voltage protection etc. • coordinate and manage logistic related issues • understand and demonstrate knowledge of air insulated and gas insulated substation • supervise erection and commissioning of substation equipment • undertake installation of switchgear and control panel • supervise installation of Substation Automation System (SAS) • ensure protection system of all the plant equipment • supervise G.O. switch installation • ensure protection of distribution system equipment –transformer, switchgear etc. • ensure grounding and earthing system of all the plant and equipment • apply knowledge of circuit breaker, relay, CT, PT and LA installation • ensure proper O&M of the distribution systems		
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	• ensure proper protection and earthing of equipment for healthy operation • understand consumer categories and applicable tariffs • understand operation aspects of distribution substations and lines • prepare preventive and breakdown maintenance plan for distribution system • understand consumer management aspects and customer relationship management • understand load management, grid stability, frequency, load dispatch, feeder loading etc. • locate the conduit, cables & other underground system to perform maintenance work • understand performance monitoring of critical system such as RTU, Remote Metering Unit (RMU) and other automation system • understand tools and technologies available for conducting maintenance activities • have an understanding of commercial operation of the entire revenue management process viz meter reading, bill generation, bill distribution, revenue collection, arrear management, consumer management etc. • coordinate resources, mobilize teams, build teams, resolve interpersonal issues, manage logistics • create SOPs, schedules, maintenance schedules • prepare estimates, bill of quantity for carrying out maintenance activity • plan and supervise predictive, preventive, breakdown and routine maintenance for lines and substation equipment • monitor problem and keep the manager informed about progress or any • testing of distribution transformers and other associated equipment		
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	• testing of earthing systems for distribution systems • fault location methods for distribution system lines, cables • carrying out repair and replacement of faulty/unhealthy equipment • troubleshooting of faulty system • upgrading or modifying the existing unhealthy equipment/system • carrying out general routine repair work • technical change implementation in equipment/systems • coordinating resources, mobilize teams, build teams, resolve interpersonal issues, manage logistics • creating SOPs, schedules, maintenance schedules		
Responsibility	• Responsibility for own work and learning and full responsibility for other's works and learning	Responsibility for own work and learning and full responsibility for other's works and learning and coordinating resources, mobilize teams, build teams, resolve interpersonal issues, manage logistics	6

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	5
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) of any 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	Cable Jointing tool	As per requirement	1
55	Theodolite	As per requirement	1
56	Thermo Vision Camera	As per requirement	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Projector
3. Computer/Laptop
4. Chairs
5. Tables
6. Whiteboard marker

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@naco-india.com	
5	Distil Ventures India Limited	Shri Sushant Kumar	Manager - 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 Sujan 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 Contruction	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 Secretrate 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	300	285	285	N/A	30	28	28	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:

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	Project Marks	Viva Marks
PSS/N2109: Oversee installation activities of power distribution system	<i>Installation of power distribution system</i>	21	52	-	-
	PC1. interpret schematic drawings, engineering drawings, single line diagrams, lay out plans etc. of the power distribution system to identify the installation requirements	2	5	-	-
	PC2. supervise route survey for O/H line, U/G lines and ROW, for installation of new service line connections	2	5	-	-
	PC3. manage revenue across all processes in distribution chain from release of new connection to collection including meter installation, meter reading, bill generation, bill distribution etc.	2	5	-	-
	PC4. prepare revenue estimates and bill of quantities (BoQ)	2	5	-	-
	PC5. overview functioning of other departments such as procurement (modes and types- turnkey, supply & services etc.), material planning and handling, store handling, logistics etc.	4	10	-	-
	PC6. supervise installation of various power system equipment such as transformers, circuit breakers, isolators, current transformers, voltage transformers, wave traps, etc.	4	11	-	-
	PC7. review operation of all types of protection system and earthing in distribution network	2	5	-	-
	PC8. implement new technologies such as Smart grid, AMR, AMI and SCADA and GIS mapping in the substation	3	6	-	-
	<i>Erection and commissioning of substation</i>	9	18	-	-
	PC9. supervise erection and commissioning of substation equipment and line elements like different types of poles/ structures, O/H line, U/G cable, switchgear, control panel etc.	3	6	-	-
	PC10. supervise installation of Substation Automation System (SAS), pole mounting substation, earthing, G.O. switch etc. and protection system such as circuit breaker, relay, CT, PT and LA for all the substation equipment	3	6	-	-
	PC11. ensure that all distribution system equipment – transformer, switchgear etc. are protected and proper grounding and earthing of all the major substation equipment	3	6	-	-
	Total Marks	30	70	-	-
PSS/N2108: Supervise power distribution system	<i>Perform operation and maintenance of distribution system</i>	21	53	-	-
	PC1. Explain the fundamental concepts of power system security, including normal, alert, emergency, and restorative operating	2	5	-	-

operation and maintenance activities	PC2. Describe common threats to power system security, such as contingencies (e.g., generator outages, transmission line failures) and cyber/physical attacks.	-	-	-	-
	PC3. Outline the key functions of power system security assessment, including system monitoring, contingency analysis, and corrective action analysis.	-	-	-	-
	PC4. Identify the basic principles of power system protection schemes and their role in maintaining system integrity during fault conditions.	-	-	-	-
	PC5. ensure smooth operation of distribution substation, overhead lines and underground cables	2	5	-	-
	PC6. review load management, grid stability, frequency, load dispatch, feeder loading etc.	3	6	-	-
	PC7. plan and supervise predictive, preventive, breakdown and routine maintenance for lines and substation equipment	2	6	-	-
	PC8. locate the conduit, cables & other underground system to perform maintenance work	3	6	-	-
	PC9. monitor performance of critical systems such as RTU, Remote Metering Unit (RMU) and other automation system	3	7	-	-
	PC10. create SOPs, schedules, maintenance schedules	2	6	-	-
	PC11. prepare estimates, bill of quantity for carrying out maintenance activity	2	7	-	-
	PC12. locate faults in the distribution system lines, cable and other equipment	2	5	-	-
	<i>Troubleshooting and repairing of faulty equipment</i>	9	17	-	-
	PC13. supervise troubleshooting and repairing / replacement activities of faulty/unhealthy equipment	3	7	-	-
	PC14. upgrade or modify the existing unhealthy equipment/system	3	6	-	-
	PC15. implement technical change in equipment/system	3	4	-	-
Total Marks		30	70	-	-
PSS/N2107: Smart Grid Automation and IoT Integration	<i>Smart Grid Automation and IoT Integration</i>	30	70	-	-
	PC1. identify IoT and automation technologies used in power distribution systems such as SCADA, smart meters, RTUs, and AMI platforms	5	12	-	-
	PC2. interpret network design requirements to integrate IoT-based solutions for monitoring and control of LT/HT feeders, substations, and distribution transformers	4	10	-	-
	PC3. coordinate installation and commissioning of smart grid components like IoT-enabled meters, fault indicators, and data loggers	5	12	-	-
	PC4. interface field automation devices (sensors, relays, actuators) with control centres or cloud-based dashboards	5	12	-	-
	PC5. ensure compliance of installed automation devices with communication protocols such as Modbus, DNP3, or IEC 61850	5	12	-	-

	PC6. monitor data streams from field devices and identify anomalies, energy losses, or performance degradation using IoT analytics	3	6	-	-
	PC7. supervise troubleshooting and rectification of issues related to connectivity, configuration, or power supply of IoT devices	3	6	-	-
	Total Marks	30	70	-	-
PSS/N1338: Apply basic health and safety practices for power related work	<i>Follow workplace health and safety practices</i>	25	36	-	-
	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. Possible causes of risk and accident: physical actions; not following instructions; inattention; sickness and incapacity; health; not taking safety precautions)	3	2	-	-
	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. Methods of accident prevention: use of equipment and working practices; safety notices, advice; instruction from colleagues and supervisors	2	-	-	-
	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	-	-
Total Marks		39	61	-	-
PSS/N1336: Work effectively with others	<i>Work effectively with others</i>	18	32	-	-
	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 behavior at the workplace. Disciplined behavior: 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 organizational 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 organizational policy for reporting the same	4	6	-	-
	Total Marks	34	56	-	-
DGT/VSQ/N0102 - Employability Skills (60 hours)	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. identify employability skills required for jobs in various industries	-	-	-	-
	PC2. identify and explore learning and employability portals	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-

PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC4. follow environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	2	4	-	-
PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-
PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC9. write short messages, notes, letters, e-mail etc. in English	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-
PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	2	-	-
PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	2	3	-	-
PC16. select financial institutions, products and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	3	4	-	-
PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21. use e-mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22. use basic features of word processor, spreadsheets, and presentations	-	-	-	-
<i>Entrepreneurship</i>	2	3	-	-

	PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
	PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
	PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
	<i>Customer Service</i>	1	2	-	-
	PC26. identify different types of customers	-	-	-	-
	PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-
	PC28. follow appropriate hygiene and grooming standards	-	-	-	-
	<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
	PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
	PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
	PC31. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
	Total Marks	20	30	-	-
Grand Total		183	357	-	-

Annexure: Assessment Strategy

The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria. The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Pack. The assessments papers are also checked for the various outcome-based parameters such as quality, time taken, precision, tools & equipment requirement etc. The assessment sets are then reviewed by PSSC official for consistency. The assessments are designed so as to assess maximum parts during the practical hands-on work. The technical limitations at the training centres are taken care in theory and viva. Criteria such as use of lift to pick heavy objects or selection of fire extinguisher during a fire are also assessed under theory/viva.

The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments. The assessment agencies are instructed to ideally have assessor with minimum 5 years industry experience as an ITI graduate / minimum 3 years' industry experience as diploma engineer and minimum 1 years' industry experience as graduate engineer.

The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to PSSC Assessment Framework, competency-based assessments, assessors guide etc.

The assessors are provided with assessor's guide developed by the Subject Matter Expert of the assessment agency as per the assessment framework. The assessment guides are developed to ensure the maximum possible consistency in the assessment by different assessors and elaborate on the following

1. Qualification Pack Structure
2. Guidance for the assessor to conduct theory, practical and viva assessments (exposed in Training of Assessors TOA)
3. Guidance for trainees to be given by assessor before the start of the assessments.
4. Guidance on assessments process, practical brief with steps of operations practical observation checklist and mark sheet
5. Viva guidance for uniformity and consistency across the batch.
6. Guidance on assessment evidence collection

The assessment results are backed by evidences collected by assessors.

1. The assessor needs to collect a copy of the attendance for the training done under the scheme. The attendance sheets are signed and stamped by the In charge /Head of the Training Centre.
2. The assessor needs to verify the authenticity of the candidate by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/Government. The same needs to be mentioned in the attendance sheet. In case of suspicion, the assessor should authenticate and cross verify trainee's credentials in the enrolment form.
3. The assessor needs to take a photograph of all the students along with the assessor standing in the middle and with the centre name/banner at the back as evidence.
4. The assessor needs to carry a camera to click photograph of the trainees working on the job and giving theory exam as evidence.
5. The assessor also needs to carry a photo ID card.
6. The assessor also needs to take the photographs as evidence from appropriate angles/sides of the final work piece/job submitted by the trainee. This evidence is signed by the trainee at the time of submission of the job piece.
7. The assessor needs to measure the dimensions and finish of the submitted job piece as per the tolerance or standards mentioned in the assessment guide.
8. The assessor will also check internal record of assignments, performance records and feedback provided to candidates.

On the Job:

1. Each module (which covers the job profile of Assamese Tribble Jewellery Maker will be assessed separately.
2. The candidate must score 50% 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
 - Answer Sheets of Question Banks
 - Assessing the Log Book entries of Trainees at Employer location
 - Employer Performance Feedback.
4. Assessment of each Module will ensure that the candidate is able to:
 - Prepare tools and consumables
 - Perform work as per requirements
 - Illustrate how to effectively work in a team to achieve quality and productivity within timelines
 - Comply with the guidelines for maintaining health and safety at workplace

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