

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Power Sector Skill Council, 2nd Floor, CBIP Building Malcha Marg, Chanakyapuri,
New Delhi - 110021

Name And Contact Details of Individual dealing with the Submission

Name: Mr. Ravi P. Singh

Position in the organisation: CEO

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List of documents submitted in support of the Qualifications File

1. Qualification Pack
2. Occupational Map
3. Reports as evidence of need
4. Model Curriculum
 - Indicative list of tools/equipment to conduct the training
 - Trainers qualification
 - Lesson Plan
 - Distribution of training duration into theory/practical/OJT component

NSQF Qualification File Approved in 17th NSQC, dated 31/3/2022

1	Qualification Title – Electrician - Domestic Solutions	
2	Qualification Code, if any - PSS/Q6001	
3	NCO code and occupation - NCO-2015/NIL Electrician	
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term) - This is a Qualification Pack (QP), corresponding to Level – 3 and includes Seven (7) NOSs. The Electrician - Domestic Solutions performs maintenance, troubleshooting and repairing of faults in electrical circuits of domestic wiring and electrical equipment. Main purpose of the qualification – is to get unemployed people into work and also to up-skilling of skilled electricians already in employment and to enable them to take up this role. This is a short-term qualification.	
5	Body/bodies which will award the qualification	Power Sector Skill Council (PSSC)
6	Body which will accredit providers to offer courses leading to the qualification	Power Sector Skill Council (PSSC)
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Power Sector Skill Council Norms
8	Occupation(s) to which the qualification gives access	Electrician
9	Job description of the occupation	The incumbent in the job is responsible for maintenance, troubleshooting and repairing of faults in electrical circuits of domestic wiring and electrical equipment installed in households.
10	Licensing requirements	NA
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	NA
12	Level of the qualification in the NSQF	Level 3
13	Anticipated volume of training/learning required to complete the qualification	390 Hrs
14	Indicative list of training tools required to deliver this qualification	As per Model Curriculum attached
15	Entry requirements and/or recommendations and minimum age	8th + 2 year of NTC Or 1 year of NAC in relevant field OR 8th + 1 year of relevant experience OR 9th pass & pursuing Continuous Schooling OR 5th + 4 year of relevant experience

16	Progression from the qualification (Please show Professional and academic progression)	Self-employed Electrician or Senior Electrician Charge-Man (Level 4)	
17	Arrangements for the Recognition of Prior learning (RPL)	NA	
18	International comparability (where known (research evidence to be provided))	NA	
19	Date of planned review of qualification	31/03/2025	
20	Formal structure of the qualification		
	Mandatory components		
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)	Level
(i)	1. PSS/N1331: Apply basic health and safety practices for power related work 2. PSS/N1336: Working effectively with others 3. SGJ/N1702: Optimize resource utilization at workplace 4. PSS/N6001: Preparing for installation of house wiring and repairing of faults 5. PSS/N6002: Installation of electrical appliances, controls circuits and protection devices 6. PSS/N6003: Maintenance & repair of household electrical gadgets 7. PSS/N6005: Develop customer relationship 8. DGT/VSQ/N0101: Employability Skills (30 Hours)	390	3
	Sub Total (A)	390	3
	Optional components		
	Title of component and identification code/NOSs/ Learning outcomes	Estimated size (learning hours)	Level
	Sub Total (B)	0	
	Total (A+B)	390 Hrs	3

SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>Assessment will be carried out by PSSC through its affiliated third-party assessment agencies selected through proper due diligence by PSSC.</p> <ol style="list-style-type: none">1. Navriti Technologies Pvt Ltd, Bangalore2. Induslynk Training Service Pvt Ltd., Gurgaon3. Aspiring Minds Assessment Pvt Ltd., Gurgaon4. Manipal City and Builds Pvt Ltd. New Delhi5. Trendsetters Skill Assessors Pvt Ltd., Gurgaon6. Ace Assessments Pvt Ltd., New Delhi7. Assure Quality Management Certification Services Pvt Ltd. , Panchkula8. Prima Competencies Pvt Ltd., New Delhi.
22	<p>How will RPL assessment be managed and who will carry it out?</p> <p>The assessment body or employer assessors shall be responsible for RPL assessment.</p> <p>In RPL, the candidate has acquired the skills and knowledge while working and requires assessment and certification only. RPL is the acknowledgement of skills and knowledge obtained through:</p> <ul style="list-style-type: none">• formal training• work experience• life experiences <p>The focus of RPL is the competence gained from these experiences; not how, when or where the learning occurred.</p> <p>Process or steps in RPL assessments</p> <ol style="list-style-type: none">1. Offering RPL to potential candidates2. Providing information to the candidate3. Evidence collation4. Pre-screening & orientation5. Self-assessment6. Assessment and making the decision7. Feedback to the candidate8. Documentation of outcomes9. Certification
23	<p>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</p> <p>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</p>

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 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.

	<p>This evidence is signed by the trainee at the time of submission of the job piece.</p> <ol style="list-style-type: none">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.
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Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e. Learning Outcomes to be assessed, assessment criteria and the means of assessment.

24. Assessment evidences

Title of Component: Electrician - Domestic Solutions

Criteria for Assessment of Trainees

Job Role: Electrician - Domestic Solutions

Qualification Pack: PSS/Q6001

Sector Skill Council: Power

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Compulsory NOS

PSS/N1331

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<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	-	-
NOS Total	39	61	-	-

PSS/N1336

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<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 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 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	-	-
NOS Total	34	56	-	-

SGJ/N1702

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Material conservation practices</i>	4	8	-	-
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	-	-

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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	-	-

PSS/N6001

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for house wiring</i>	12	23	-	-
PC1. develop circuit and wiring diagram and electrical signages, code specifications to plan wiring layouts, consumption points accurately, as may be required	2	5	-	-
PC2. identify and arrange devices, tools and equipment required for house wiring work	3	5	-	-
PC3. identify appropriate rating and current carrying capacity wires, cables, fuse, switches, sockets, MCBs, ELCBs and other electrical accessories as per the requirement	3	5	-	-
PC4. lay conduit pipe concealed and open wiring, batten, casing- capping and temporary cleat wiring	2	4	-	-
PC5. check that all tools & tackles, fittings, accessories etc. are in safe and usable condition	2	4	-	-
<i>Selection of wiring, size, ratings of cables and accessories</i>	7	17	-	-
PC6. ensure correct selection of wires, cables, fuse, switches and other electrical accessories for optimal expenditure	2	4	-	-
PC7. select wiring and points in wiring according to the load growth in future	2	3	-	-
PC8. select appropriate under-voltage protective devices, switches and terminal	1	4	-	-
PC9. implement methods of protection against electric shock	1	3	-	-
PC10. select equipment appropriate to protection from external influences like switchgear, warning signs and danger	1	3	-	-

notices				
<i>Troubleshooting and repairing of common electrical faults</i>	11	30	-	-
PC11. inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in wiring circuit	2	7	-	-
PC12. check for any open circuit, overheated switches, socket and wires in control board, any loose contact and overload	2	5	-	-
PC13. check polarity to ensure all switches are connected in phase conductors	2	5	-	-
PC14. check equal distribution of load on three phase wiring in large residential and commercial units	2	4	-	-
PC15. check the color coding, specification and connection of conductors, cables and wires	1	3	-	-
PC16. isolate the faulty part and repair or replace it as per requirement and by following correct procedures	1	4	-	-
PC17. leave the work area is clean and tidy condition after the completion of work	1	2	-	-
NOS Total	30	70	-	-

PSS/N6002

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for work</i>	4	7	-	-
PC1. identify location for installing the main board with the utility's service line connection	1	2	-	-
PC2. prepare layout for installing controlling and protection devices like main switch, circuit breakers and other devices require at main board	1	2	-	-
PC3. identify controlling and protection devices for different circuits being used for lighting	2	3	-	-

and power loads at each floor or portion				
<i>Installation of new power points and extension boards</i>	8	19	-	-
PC4.locate and mark the position of conduit pipe making connections with structures by using tools like measuring tape, hammer, saw, drill machines etc.	1	2	-	-
PC5.cut openings in structures to accommodate conduit pipes or pipe fittings by using hand or power tools	1	2	-	-
PC6.ensure no damages to the installed utilities like electrical wiring, gas fittings etc. while cutting openings in the structures	-	1	-	-
PC7.lay conduit pipe with clamps on the wall and install brackets and hangers to support electrical equipment	1	3	-	-
PC8.install lighting fixtures and electrical control and distribution equipment such as tube lights, lamps, chandeliers, regulators switches, relays and circuit breaker panels	2	5	-	-
PC9.lay and pull wires through conduits and holes in walls, ceiling, lanterns and floors	1	2	-	-
PC10. connect and join wire to fixtures and components to form circuits	1	2	-	-
PC11. prepare extended line for additional points with bearing capacity of existing system or replace existing lines to withhold the additional load	1	2	-	-
<i>Installation of protective devices</i>	6	14	-	-
PC12. install the protective device i.e. fuse, MCB, RCCB, RCD, MCCB's of correct ratings as per the load	2	5	-	-
PC13. check functioning of all protective devices through earthing diagrams (TT)	1	3	-	-
PC14. ensure that fuse, switch or circuit breaker is not placed in an earthed neutral conductor and are wired only in the phase conductor only	1	2	-	-
PC15. check that all connections are properly tightened and made with appropriate colour coding	1	2	-	-

PC16. ensure that the correct type, size and current-carrying capacity of cables is chosen to bear the load and all accessible points which may be switched on/off must be easily approached by the users and made as per CEA guidelines standards	1	2	-	-
<i>Installation of electrical appliances</i>	7	18	-	-
PC17. identify and mark location for installing the electrical appliances and laying the earth connections	1	2	-	-
PC18. identify, select and arrange devices such as timers, impulse relay, programmable switch, twilight switch, movement detector etc. as a protection device to connect with the electrical equipment	2	3	-	-
PC19. perform assembly of electrical equipment of various type, design and capacity fans, tube lights, LED Lights, bulbs, lamps, doorbells, switches, geysers, inverters, exhaust fan, safety alarms, decorative lights and chandeliers	2	5	-	-
PC20. install the electrical equipment and make connections of electrical equipment with the house wiring by following correct procedures	1	4	-	-
PC21. connect the appliance with earth connection, sockets main board and distribution board	-	2	-	-
PC22. ensure installation of appropriate size and capacity water pump motors according to the load with their control circuit of water level in tank	1	2	-	-
<i>Testing of house wiring connections</i>	5	12		
PC23. set the testing apparatus as per the testing methods	1	3	-	-
PC24. connect the testing equipment to house wiring and check its healthiness	1	2	-	-
PC25. conduct insulation resistance, continuity, open circuit, short circuit, load flow and earth resistance test to identify the faults in the circuit	1	3	-	-
PC26. isolate the faulty area and do the repairing of fault by following correct	1	2	-	-

procedures				
PC27. check the functioning of house wiring and electrical appliances after repairing work	1	2	-	-
NOS Total	30	70	-	-

PSS/N6003

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for inspection & testing of household gadgets</i>	4	8	-	-
PC1. identify the work requirements by interpreting the drawings, circuit diagrams and electrical code specifications of the electrical equipment and gadgets	1	2	-	-
PC2. identify the capacity in kW, load in amperes and power consumption in kWh for each appliance	1	2	-	-
PC3. check connection of equipment and status of tripping device	1	2	-	-
PC4. ensure presence of appropriate devices for isolating and switching	1	2	-	-
<i>Testing of single phase motor of gadget</i>	7	18	-	-
PC5. set the test apparatus as per the testing method and connect it with the motor	2	4	-	-
PC6. check insulation resistance of motor winding with live conductors to earth and between live conductors	2	5	-	-
PC7. check functioning of various parts of motors like ball bearings, cooling fans, fins and bushes	1	3	-	-
PC8. inspect the winding wires, their gauge and insulating materials for any damage, wear and tear etc.	1	3	-	-
PC9. repair or replace the faulty part as per the requirement and by following correct procedures	1	3	-	-
<i>Testing of heating element, thermal relays and insulation of gadget</i>	4	10	-	-

PC10. set the test apparatus as per the testing method and connect it with the equipment	1	3	-	-
PC11. check the heating elements, thermal insulations, timers (motorized, mechanical), thermal relays, bimetallic strips etc. for any fault and damage	2	5	-	-
PC12. repair or replace the faulty part as per the requirement and by following correct procedures	1	2	-	-
<i>Repair and maintenance of small electrical appliances</i>	7	16	-	-
PC13. ensure preventive maintenance, regular cleaning, oiling, greasing of household gadgets like fans, desert cooler, water pump motors etc.	2	4	-	-
PC14. replace damaged switches, MCB, fan- capacitor, regulator, lighting points i.e. holder, choke, starters, water coolers and their pump & motor	2	4	-	-
PC15. ensure regular maintenance of electrical equipment's and devices like iron, toaster, induction-plate & cooker, doorbells, FL tube starters & chokes, batteries etc.	2	5	-	-
PC16. carry our soldering of winding wires, cables and their joints in electrical gadgets if required	1	3	-	-
<i>Repair and maintenance of roof top solar system</i>	8	18	-	-
PC17. verify system grounding and measure insulation resistance	1	2	-	-
PC18. clean solar panels for removal of dust, bird droppings, pollen, leaves, branches etc. as per maintenance schedule	1	2	-	-
PC19. ensure all electrical connections are connected properly and as per the specified specification	1	2	-	-
PC20. measure and record DC voltages and currents and identify faults in the system	2	4	-	-
PC21. check working condition of fuses, circuit breakers and all cables for loose	1	2	-	-

connections				
PC22. repair or replace the faulty part as per the requirement and by following correct procedures	1	4	-	-
PC23. inform OEM or repair and maintenance team, if reason of error is not clear	1	2	-	-
NOS Total	30	70	-	-

PSS/N6005

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Establish rapport with customer</i>	7	18	-	-
PC1. ensure effective verbal communications are polite, clear and completed in a timely manner	2	5	-	-
PC2. greet or acknowledge and offer assistance to the customer promptly	2	5	-	-
PC3. ensure consumer is asked if there is anything else they can be helped with	1	3	-	-
PC4. ensure tone of voice and pace are monitored to ensure that trust is built	2	5	-	-
<i>Gather information to assess consumer's needs</i>	4	10	-	-
PC5. use effective and efficient line of questioning and identify consumer needs appropriately	2	5	-	-
PC6. submit a crisp proposal answering needs of the consumer with financial estimate component, explain full details and seek his/her consent to begin the job	2	5	-	-
<i>Explain new products and options to customers</i>	4	10	-	-
PC7. identify new initiative taken up by company in reference to energy conservation products by providing LED lamps, 5 star rating electric gadgets	2	5	-	-
PC8. explain information about power generating equipment like genset, solar	2	5	-	-

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panel etc. and other non-conventional energy source to customer appropriately				
<i>Respond to consumer's comments and questions</i>	6	13	-	-
PC9. provide appropriate explanation/solutions/ options to customer as per the consumer's requirement	2	5	-	-
PC10. ensure customer communications are paraphrased to confirm understanding and all needs are recognized and acknowledged	2	4	-	-
PC11. escalate the issues or connect the customer to appropriate departmental staff when necessary to meet consumer needs	2	4	-	-
<i>Resolve consumer's problems</i>	9	19	-	-
PC12. show patience and attentiveness while handling stumped and frustrated customer	1	3	-	-
PC13. communicate important points clearly to customer, keep it simple and leave nothing to doubt	2	4	-	-
PC14. look and listen for subtle clues about their current mood, patience level, personality, etc., and you'll go far in keeping your customer interactions positive	2	4	-	-
PC15. maintain a calming presence and always use "positive language"	2	4	-	-
PC16. suggest appropriate solution to customer and end the services with confirmed satisfaction (or as close to it as you can achieve) and with the consumer feeling that everything has been worked on	2	4	-	-
NOS Total	30	70	-	-

DGT/VSQ/N0101: Employability Skills (30 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	4
4.	Basic English Skills	5
5.	Communication Skills	2
6.	Diversity & Inclusion	2
7.	Financial and Legal Literacy	7
8.	Essential Digital Skills	10
9.	Entrepreneurship	8
10.	Customer Service	4
11.	Getting ready for Apprenticeship & Jobs	4
	Total	50

Means of assessment 1

The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria.

The assessment papers for theory and practical are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Packs.

Tests are administered and marks for theory paper and practical's demonstrating the selling techniques, handling of jewellery and retail sales counter. All the components and the performance criteria are covered during the test.

Means of assessment 2

The assessments for theory is carried out in Offline mode (TAB) and the practical assessments is carried out with the availability of the equipment at the TC, as predefined for the job role.

Pass/Fail

The minimum total marks to be achieved for being competent are 70% in total.

NSQC Approved

SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process	This role requires competencies by Electricians to carry out all sorts of troubleshooting in electrical circuits of domestic wiring, fault repair, alterations, maintenance & repair of electrical equipment installed in households.	<p>The job expects a person to carry out a job which may require limited range of activities routine and predictable.</p> <p>Hence, it qualifies as a Level 3 role. Since it does not involve situation of clear choice, the role does not qualify for Level 4.</p> <p>This role requires the job holder to work in a familiar, routine, predictable, and the activities that h/she is expected to perform are not repetitive, Work requires the ability to lift heavy objects poles and perform strenuous physical labor, on a regular basis, with little application of understanding, more of practice. Hence it cannot be placed at level 2.</p>	3
Professional knowledge	<ul style="list-style-type: none"> • Basic elements of electricity, voltage, current, resistance, power, energy, and how electricity flows • Basic Knowledge of electrical circuit drawings and layouts • Wires and cables, their current carrying capacity and their usage • Standard procedures followed in house wiring 	<p>The job holder is expected to have Basic facts, process and principle applied in trade of employment. The role qualifies for Level 3.</p> <p>The job holder is expected to be familiar with all machines and equipment's. He/she is not expected to know material, tools and applications in a limited context, understands context of work and quality, and the technical specification of associated equipment, so it</p>	3

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> • Ratings as per technical terminology of control switches, MCB, ELCB, RCD electrical accessories and appliances used in house wiring, their purpose and functioning • How to plan the work correctly using various safety measures. work planning : location, material required and sequence of tasks • All types of conceal, open wiring. size of conduit pipe, batten and casing-capping required for each circuit • Depth of groove, channel size, clamping, boxes, hole pass on walls, pre lanter fittings and hooks on ceiling etc. Knowledge of inserting steel wire to drag the bunch of wires through conduit pipe • Tools and tackles used for house wiring e.g. tool's bag containing combination plier, cutter, screw drivers, hammer, chisel, drill machine, wrench set, hacksaw etc. importance of tools and equipment to be kept in a safe and usable condition • Specific health and safety precautions which must be taken when carrying out indoor and outdoor wiring, associated hazards, working at heights and PPE's must be worn • Basics of power regulations and safety 	cannot be pegged at level 2.	

NSQF Qualification File Approved in 17th NSQC, dated 31/3/2022

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	requirements as per CEA/Power company guidelines		
Professional skill	<ul style="list-style-type: none"> • Develop various types of house wiring planning and drawings/layouts according to specific situation • Wiring selection, size, ratings of cables, accessories optimization & forecasting • Common electrical wiring faults, identification and repair of wiring of residential and commercial units • Working safely • Ensure of mains, distribution board and protection devices • Ensure of new power points, extension boards • Ensure of protective devices • Types of earthing, procedure to lay and its connection in house wiring. Ensure of electrical appliances • Types and use of test instruments in house wiring • Inspection& Testing • Types of single and three phase motors • Types of heating element, thermal relays and insulation • Repair and maintenance of household electrical appliances • Repair and maintenance of roof top solar 	<p>The job holder is expected to carry out recall and demonstrate practical skill, routine and repetitive in narrow range of application, hence qualifying the role for a Level 3.</p> <p>As this job does not requires limited service skills used in limited context; select and apply tools; assist in professional works with no variables; differentiate good and bad quality and apply domain information to set and define operation</p> <p>Therefore, it cannot be pegged at level 2.</p>	3

NSQF Qualification File Approved in 17th NSQC, dated 31/3/2022

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Core skill	<p>panel</p> <ul style="list-style-type: none"> • Develop circuit and wiring diagram and electrical signages, code specifications to plan wiring layouts, consumption points accurately, as may be required • Use various types of tools, their functions and application for carrying out work • Understand rating and current carrying capacity of wires, cables, fuse, switches, sockets, MCBs, ELCBs and other electrical accessories • Lay conduit pipe concealed and open wiring, batten, casing-capping and temporary cleat wiring • Implement system in the most economical way • Ensure correct requirement of wires, cables, fuse, switches and other electrical accessories for optimal expenditure • Ensure wiring and points selected in wiring are according to load growth in future • Understand use of under-voltage protective devices, choice of setting of protective devices, labelling of protective devices, switches and terminals • Understand insulation resistance of all live conductors to earth, insulation resistance between live conductors 	<p>The job holder is expected to Communication written and oral, with minimum required clarity, skill of basic arithmetic and algebraic principles, personal banking, basic understanding of social and natural environment. Hence, this role qualifies for Level 3.</p> <p>As this job does not requires to receive and transmit written and oral messages, basic arithmetic, personal financing and understanding of social, political, and religious diversity, hygiene and environment and ensure proper wiring and connection, Therefore, it cannot be pegged at level 2</p> <p>The role does not requires to possess skills and language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment. Hence cannot be pegged at level 4</p>	3

NSQF Qualification File Approved in 17th NSQC, dated 31/3/2022

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> • Implement methods of protection against electric shock • Ensure selection of equipment appropriate to external influences, access to switchgear and equipment, presence of warning signs and danger notices • Use updated technology products and take their ageing into consideration • Inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in wiring circuit • Ensure open circuit due to overheated switches, socket and wires in control board due to loose contact and overload • Check polarity to ensure all switches are connected in phase conductors • Check equal distribution of load on three phase wiring in large residential and commercial units • Check the color coding, connection and identification of conductors, cables and wires • Check routing of cables, proper selection of conductors, wires and connectors and connection of single pole devices • Install the protective device i.e. fuse, MCB, RCCB, RCD, MCCB's ratings as per the load 		

NSQF Qualification File Approved in 17th NSQC, dated 31/3/2022

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> • Ensure proper working and functioning of all protective devices that are necessary to save lives of human, livestock, animals through earthing diagrams (TT) • Ensure fuse, switch or circuit breaker is not placed in an earthed neutral conductor and are wired only in the phase conductor only • Ensure all connections are made properly, tightened and color coding • Ensure that the correct type, size and current-carrying capacity of cables is chosen to bear the load • Ensure that all accessible points which may be switched on/off must be easily approached by the users and made as per CEA guidelines standards • Make connections and operate instruments to check the healthiness of house wiring in terms of leakage insulation resistance • Operate instruments to check the continuity, open circuit, short circuit and load flow • Operate instruments to check the earth resistance • Understand drawings, circuit diagrams and electrical code specifications of the electrical equipment and gadgets • Understand the capacity in kW, load in 		

NSQF Qualification File Approved in 17th NSQC, dated 31/3/2022

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<p>Amperes and power consumption in kWh for each appliance</p> <ul style="list-style-type: none"> • Check connection of equipment and status of tripping device • Ensure presence of appropriate devices for isolating and switching • Ensure preventive maintenance, regular cleaning, oiling, greasing of household gadgets like fans, desert cooler, water pump motors etc. • Ensure replacement of damaged switches, MCB, fan- capacitor, regulator, lighting points i.e. holder, choke, starters, water coolers and their pump & motor • Ensure regular maintenance of electrical equipment's like- iron, toaster, induction-plate & cooker. • Ensure regular maintenance of doorbells, FL tube starters & chokes • Preventative maintenance of batteries • Ensure soldering of winding wires, cables and their joints in electrical gadgets 		
Responsibility	Responsibility for own work and learning	<p>The job holder is having some responsibility for own work under close supervision within defined limit and ensure safety measures of working, Hence, this role qualifies for Level 3. It does not comprise of any supervisory activities.</p> <p>Since, the job holder is expected to be</p>	3

NSQF Qualification File Approved in 17th NSQC, dated 31/3/2022

Title/Name of qualification/component: Electrician - Domestic Solutions			Level: 3
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
		responsible for own working under defined limit and is not responsible for own work and learning. Therefore, this role cannot be pegged at level 4.	

SECTION 3 EVIDENCE OF NEED

26. What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?

Need of the qualification?

PSSC carried out comprehensive skill gap study and collected feedback from industry with respect to roles for which qualification packs development are required. The occupational map was finalised accordingly. The need of this particular qualification was revalidated during the comprehensive interaction with industry in the process of seeking their input for QP/NOS development.

Industry relevance?

Yes, NSDC QRC process has been adhered to. This includes minimum validations for the QP from employers in the sector. This has been across small, medium and large companies.

PSSC undertaken validation from the industry players and also industry endorsement from end user industry which are mix of large companies, medium lease companies and small companies.

List of industries involved in the Validation process for the QP

S No.	Large scale industries	Medium scale industries	Small scale industries
1			
2			
3			
4			
5			
6			
7			
8			
9			

Uses of Qualifications and industry uptake

Skill GAP analysis carried out by a reputed research agency provided a broad estimate of demand. The report can be referred in the common files. PSSC is taking initiative to develop a labour market information database that would peg the demand more accurately- job role wise as well as based on geographical spread. Key enabler segments for the core segments of the Power Industry include power plants, electrical gadgets manufacturing etc.

Based on the current growth profile in the Indian power industry, it is expected that lot of additional employment opportunities will be created in the industry over the next decade.

27. Recommendation from the concerned Line Ministry of the Government/ Regulatory Body

The same has been obtained from Ministry of Power (MoP)/ Central Electricity Authority (CEA), regulatory body of MoP and enclosed herewith

28. What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?

This is the first time that this Qualification is being made. The national qualification register as well as the Qualification Packs with NSDC have been checked.

29. What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated?

- Agencies have been appointed by the SSC to interact with training providers to gather feedback in implementation.
- Monitoring of results of assessments
- Employer feedback will be sought post-placement
- A formal review is scheduled in **3 years' time i.e. 2025**

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

SECTION 4
EVIDENCE OF PROGRESSION

**30. What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?
*Show the career map here to reflect the clear progression***

1. Discussing the growth trajectory within each occupation after studying organisational charts of various industry players.
2. Exploring various lateral career opportunities for the discussed qualification
3. Ensuring that there is a clear role up in terms of performance criteria qualification experience and skill requirement from lower NSQF Level to higher levels in the hierarchy.

Please refer to attached career path as per annexure 1 which clearly defines the career path.

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

