#### 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

Name and contact details of individual dealing with the submission

Name: Vinod Behari

Position in the organisation: Chief Executive Officer

Address if different from above:

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#### List of documents submitted in support of the Qualifications File

- 1. Qualification Pack
- 2. List of companies and Industry associations participated in the development of these qualification packs (part of report)
- 3. List of QP/NOS validating companies.

#### SUMMARY

Qualification Title	Electrician Domestic Solutions
Qualification Code	PSS/Q6001
Nature and purpose	Nature of the qualification
of the qualification	- Qualification Pack (QP)
	The main purpose of the qualification
	<ul> <li>Types of House wiring and fault repair in house wiring</li> <li>Mains, distribution, controls, circuits and protection in</li> </ul>
	house wiring
	- Maintenance & Repair of house hold electrical gadgets
	- Entrepreneurship
	- Customer relationship skills
Body/bodies which	Power Sector Skill Council
will award the	
qualification	
Body which will	Power Sector Skill Council
accredit providers to	
offer courses leading	
to the qualification	
Body/bodies which	Navriti Technologies Pvt Ltd, Bangalore
will carry out	Induslynk Training Service Pvt Ltd., Gurgaon
assessment of	Aspiring Minds Assessment Pvt Ltd., Gurgaon
learners	Manipal City and Builds Pvt Ltd. New Delhi
	Trendsetters Skill Assessors Pvt Ltd., Gurgaon
	Ace Assessments Pvt Ltd., New Delhi
	Assure Quality Management Certification Services Pvt Ltd. ,
	Panchkula
	Prima Competencies Pvt Ltd., New Delhi
Occupation(s) to	
which the	Electrician
qualification gives	
access	
Licensing	N/A
requirements	
Level of the	3
qualification in the	
NSQF	
Anticipated volume	350
of training/learning	
required to	
complete the	
qualification	
Entry requirements	8 <sup>th</sup> Pass
and/or	
recommendations	

Progression from the	Self-employed Electri	cian or Senior	Electrician Char	ge-Man			
qualification	(Level 4)						
Planned	RPL arrangements and policies are under development. The						
arrangements for the	guidelines should be ready in 2-3 months.						
Recognition of Prior	-	-					
learning (RPL)							
International							
comparability where							
known	In the process of bein	g developed					
Date of planned	25/07/2021						
review of the							
qualification.							
Formal structure of the	e qualification						
Title of component code.	and identification	Mandatory / Optional	Estimated size (learning hours)	Level			
PSS/ N 6001Types of Hous repair in house wiring	e wiring and fault	Mandatory	56	3			
PSS/ N 6002 Mains, distri and protection in house wi		Mandatory	62	3			
PSS/ N 6003 - Maintenar hold electrical gadgets	nce & Repair of house	Mandatory	152	3			
PSS/N6005 Customer rela	tionship skills	Mandatory	24	3			
PSS/N2001 (Use basic hea at the workplace)	lth and safety practices	Mandatory	32	3			
PSS/N1336 (Work effectiv	vely with others)	Mandatory	24	3			

Please attach any document giving further detail about the structure of the qualification - eg a Curriculum Document or a Qualification Pack.

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

• Qualification Pack is attached as Annexure 1

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### SECTION 1 ASSESSMENT

#### Body/Bodies which will carry out assessment:

- 1. Navriti Technologies Pvt Ltd, Bangalore
- 2. Induslynk Training Service Pvt Ltd., Gurgaon
- 3. Aspiring Minds Assessment Pvt Ltd., Gurgaon
- 4. Manipal City and Builds Pvt Ltd. New Delhi
- 5. Trendsetters Skill Assessors Pvt Ltd., Gurgaon
- 6. Ace Assessments Pvt Ltd., New Delhi
- 7. Assure Quality Management Certification Services Pvt Ltd. , Panchkula
- 8. Prima Competencies Pvt Ltd., New Delhi

#### How will RPL assessment be managed and who will carry it out?

RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack.

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.

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 15 years industry experience as an ITI graduate / minimum 10 years' industry experience as diploma engineer and minimum 5 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 assessors 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

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- 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 angels/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.

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. This code of conduct is enclosed. The assessment agencies are instructed to Ideally have assessor with minimum 15 years industry experience as an ITI graduate / minimum 10 years' industry experience as diploma engineer and minimum 5 years' industry experience as graduate engineer.

Please attach any 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.

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#### **CRITERIA FOR ASSESSMENT OF TRAINEES**

#### Job Role Electrician Domestic Solution

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 center (as per assessment criteria below).

5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.

6. To pass the Qualification Pack , every trainee should score a minimum of 50% of aggregate marks to successfully clear the assessment.

7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

( Total Marks: 600	Compulsory NOS			Marks A	llocation
Assessment outcomes			Out Of	Theory	Skills Practical
<ol> <li>PSS/ N 6001 Types of House wiring and fault repair in house wiring</li> </ol>	PC1. Develop circuit and wiring diagram and electrical signages, code specifications to plan wiring layouts, consumption points accurately, as may be required		3	2	1
	PC2. Understand and use of various types of tools, their functions and application for carrying out work		6	4	2
6	PC3. Understand rating and current carrying capacity of wires, cables, fuse, switches, sockets, MCBs, ELCBs and other electrical accessories	100	5	2	3
	PC4. Lay conduit pipe concealed and open wiring, batten, casing- capping and temporary cleat wiring		4	1	3
	PC5. Implement system in most economical way		5	2	3
	PC6. Understand correct requirement of wires, cables, fuse, switches and other electrical accessories for optimal expenditure		6	3	3
	PC7. Ensure wiring and points selected in wiring is according to load growth in future		5	2	3

PC1. Understand standard location of main board ensure for utility's service line connection PC2. Understand layout of main	100	100 6	30 3	70 3
				70
after the job is completed		100	20	70
PC22. Ensure work area is clean and safe from hazards before and		4	1	3
fittings, accessories etc. are in safe and usable condition		4	0	4
to wear PPE's.		5	1	4
complying with health and safety legislation, regulation and other relevant guidelines		3	0	3
proper selection of conductors, checking connection of single pole device		3	1	2
selection of conductors, wires and connectors and connections of single pole device		5	3	2
on three phase wiring in large residential and commercial units		5	2	3
PC15. Check polarity to ensure all switches are connected in phase conductors		5	0	5
PC14. Check open circuit due to overheated switches, socket and wires in control board due to loose contact and overload	3	4	1	3
PC13. Inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in Wiring circuit		4	1	3
products also consider its ageing	C	4	1	3
PC11.selection of equipment appropriate to external influences, access to switchgear and equipment, presence of warning signs and danger notices		5	2	3
PC10. Impliment methods of protection against electric shock		5	0	5
PC9. Ensure insulation resistance of all live conductors to earth, insulation resistance between live conductors.		4	1	3
PC8. Use under-voltage protective devices, choice of setting of protective devices, labelling of protective devices, switches and terminals		6	0	6
	<ul> <li>devices, choice of setting of protective devices, labelling of protective devices, switches and terminals</li> <li>PC9. Ensure insulation resistance of all live conductors to earth, insulation resistance between live conductors.</li> <li>PC10. Impliment methods of protection against electric shock</li> <li>PC11. selection of equipment appropriate to external influences, access to switchgear and equipment, presence of warning signs and danger notices</li> <li>PC12. Understand updated technology products also consider its ageing</li> <li>PC13. Inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in Wiring circuit</li> <li>PC14. Check open circuit due to overheated switches, socket and wires in control board due to loose contact and overload</li> <li>PC15. Check polarity to ensure all switches are connected in phase conductors</li> <li>PC16. Check equal distribution of load on three phase wiring in large residential and commercial units</li> <li>PC17. Check the color coading, proper selection of conductors, wires and connectors and connections of single pole device</li> <li>PC18. Check routing of cables, checking proper selection of conductors, checking connection of single pole device</li> <li>PC19. Work safely at all times, complying with health and safety legislation, regulation and other relevant guidelines</li> <li>PC20. Adhere to procedures for safety to wear PPE's.</li> <li>PC21. Ensure that all tools &amp; tackles, fittings, accessories etc. are in safe and usable condition</li> <li>PC22. Ensure work area is clean and safe from hazards before and</li> </ul>	<ul> <li>devices, choice of setting of protective devices, labelling of protective devices, switches and terminals</li> <li>PC9. Ensure insulation resistance of all live conductors to earth, insulation resistance between live conductors.</li> <li>PC10. 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Inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in Wiring circuit4PC14. Check open circuit due to loose contact and overload4PC15. Check polarity to ensure all switches are connected in phase conductors5PC16. Check equal distribution of load on three phase wiring in large residential and commercial units5PC17. Check the color coading, proper selection of conductors, checking connection of single pole device5PC10. Work safely at all times, complying with health and safety legislation, regulation and other relevant guidelines3PC20. Adhere to procedures for safety to wear PPE's.5PC21. Ensure that all tools & tackles, fittings, accessories etc. are in safe and usable condition4PC22. Ensure work area is clean and safe from hazards before and after the job is completed4	devices, choice of setting of protective devices, labelling of protective devices, switches and terminals60PC9. Ensure insulation resistance of all live conductors to earth, insulation resistance between live conductors.41PC10. Impliment methods of protection against electric shock50PC11. selection of equipment appropriate to external influences, access to switchgear and equipment, presence of warning signs and danger notices52PC12. Understand updated technology products also consider its ageing41PC14. Check open circuit due to loose contact and overload41PC15. Check polarity to ensure all switches are connected in phase conductors50PC16. Check equal distribution of load on three phase wring in large proper selection of conductors, checking connection of single pole device52PC18. Check routing of cables, checking proper selection of conductors, checking connection of single pole device31PC19. Work safely at all times, relevant guidelines30PC20. Adhere to procedures for safety to wear PPE's.51PC21. Ensure that all tools & tackles, fittings, accessories etc. are in safe and usable condition41PC22. Ensure work area is clean and safe form hazards before and after the job is completed41

protection in	main board	
house wiring	PC3. Ensure of controlling and protection devices for different circuits being used for lighting and power loads at each floor or portion	4
	PC4. Check types of conduit, batten, underground and open wiring	4
	PC5. Locate and mark the position of conduit pipe Ensures, connections into the structures with proper equipment's like measuring tape, hammer, saw, drill machines etc.	4
	PC6. Cut openings in structures to accommodate conduit pipes or pipe fittings, using hand or power tools	٩
	PC7. Read plan Ensure around obstructions like electrical wiring, gas fittings etc.	4
	PC8. Laying of conduit pipe with clamps	1
	PC9. Install brackets and hangers to support electrical equipment	1
	PC10. Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels	6
	PC11.Lay & pull wire through conduits and through holes in walls and floors	4
	PC12. Join and connect wire to fixtures and components to form circuits	6
25	PC13. Prepair extended line for additional points with bearing capacity of existing system or augment/replacement of existing lines to with hold the additional load	5
5	PC14. Install the protective device i.e. fuse, MCB, RCCB, MCCB's ratings as per the load	6
	PC15. Ensure proper working and functioning of all protective devices thet are necessary to	3

3	1	2
3	0	3
4	1	3

		-			
	PC18. Ensure that the correct type, size				
	and current-carrying capacity of		3	1	2
	cables is chosen to bear the load				
	PC19. Ensure that the all accessible				
	points which may be switched		3	2	1
	on/off must be easily approached		3	2	1
	by the users				
	PC20. Understand types of earthing				
	plate and pipe earthing layout		4	2	2
	location		-	_	_
	PC21. Understand importance of earth				
	connection with household		3	2	1
	gadgets and equipments		5	L _	•
		-			
	PC22. Understand procedure of earth				
	connection with appliance,		3	1	2
	sockets main board and				
	distribution board				
	PC23. Use of devices available in				
	market such as trimmers, impulse				
	relay, programmable switch,		2	0	2
	twilight switch, movement				
	detector				
	PC24. Ensure of assembling of various				
	type, design and capacity fans,				
	tube lights, LED lights, bulbs,				
	lamps, doorbells, switches,		3	1	2
	geysers, inverters, exhaust fan,				
	safety alarams, decorative lights				
	and chandliers				
	PC25. Ensure of various size and	ſ [			
	capacity water pump motors				
	according to the load with their		3	1	2
	control circuit of water level in		3	•	-
	tank				
	PC26. Make connections and operate	-			
	instruments to check the		2	0	2
	healthiness of house wiring in		2	0	2
	terms of leakage insulation				
	resistance				
	PC27. Operate instruments to check the				
			~	_	-
	continunity, open circuit, short		2	0	2
	circuit and load flow		2	0	2
5	circuit and load flow PC28. Operate instruments to check the	-			
6	circuit and load flow		2 2	0	2
6	circuit and load flow PC28. Operate instruments to check the				
3. PSS/ N 6003	circuit and load flow PC28. Operate instruments to check the		2	0	2
3. PSS/ N 6003 Maintenance &	circuit and load flow PC28. Operate instruments to check the earth resistance		2 100	0 31	2 69
Maintenance &	Circuit and load flow PC28. Operate instruments to check the earth resistance PC1. Read and interpret drawings, circuit diagrams and electrical		2	0	2
	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the</li> </ul>		2 100	0 31	2 69
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> </ul>		2 100	0 31	2 69
Maintenance & Repair of house	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand</li> </ul>		2 100 7	0 31 3	2 69 4
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in</li> </ul>		2 100	0 31	2 69
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in Amperes and power consumption</li> </ul>	100	2 100 7	0 31 3	2 69 4
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in Amperes and power consumption in KWH for each appliance</li> </ul>	100	2 100 7	0 31 3	2 69 4
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in Amperes and power consumption in KWH for each appliance</li> <li>PC3. Check connection of equipment, gadgets</li> </ul>	100	2 100 7 4	0 31 3 3	2 69 4 1
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in Amperes and power consumption in KWH for each appliance</li> <li>PC3. Check connection of equipment, checking for status of tripping</li> </ul>	100	2 100 7	0 31 3	2 69 4
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in Amperes and power consumption in KWH for each appliance</li> <li>PC3. Check connection of equipment, checking for status of tripping device</li> </ul>	100	2 100 7 4	0 31 3 3	2 69 4 1
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in Amperes and power consumption in KWH for each appliance</li> <li>PC3. Check connection of equipment, checking for status of tripping device</li> <li>PC4. Ensure presence of appropriate</li> </ul>	100	2 100 7 4 4	0 31 3 3 2	2 69 4 1 2
Maintenance & Repair of house hold electrical	<ul> <li>circuit and load flow</li> <li>PC28. Operate instruments to check the earth resistance</li> <li>PC1. Read and interpret drawings, circuit diagrams and electrical code specifications of the electrical equipment, gadgets</li> <li>PC2. Read, interpret and understand the capacity in KW, load in Amperes and power consumption in KWH for each appliance</li> <li>PC3. Check connection of equipment, checking for status of tripping device</li> </ul>	100	2 100 7 4	0 31 3 3	2 69 4 1

PC5. Understand operating principle of
single phase motor, use of
condenser
PC6. Understand how rotating field is
developed in single phase and
three phase motor
PC7. Understand the significance of
number of poles significance in
motor winding for rpm, speed
and direction change
PC8. Maesure insulation resistance of
motor winding with live
-
conductors to earth and
insulation resistance between live
conductors
PC9. Understand various parts of
motors, pumps and their function
like ball bearings, cooling fans,
fins and bushes
PC10. Understasnd various types of
winding wires, their gauge and
insulating materials for motor
winding
PC11. Understand materials used to
make various types of heating
elements like nicrome, kanthal,
eureka etc., various shape, size
and capacity of heating elements
according to applications and
usages
PC12. Understand types of thermal
insulations used in electrical
gadgets like mica, asbestos,
ceramics, glass wool etc.
PC13. Understand timers (motorized,
mechanical), thermal relays,
bimetallic strips
PC14. Ensure preventive maintenance,
regular cleaning, oiling, greasing
of house hold gadgets like fans,
desert cooler, water pump motors
etc.
PC15. Replace damaged switches, MCB,
fan- capacitor, regulator, lighting
points i.e. holder, choke,
starters, water coolers and their
pump & motor
PC16. Ensure regular maintenance of
electrical equipment's like- iron,
toaster, induction-plate & cooker
PC17. Ensure regular maintenance of
doorbells, FL tube starters &
chokes
PC18. Preventative maintenance of
batteries used in inverters
PC19. Solder winding wires, cables and
their joints in electrical gadgets
PC20. Verify system grounding and

-			
	5	4	1
	2	2	0
	3	2	1
	3	1	2
C	3	2	1
	2	2	0
3	4	0	4
	4	0	4
	5	2	3
	4	0	4
	6	2	4
	8	3	5
	8	3	5
	5	2	3
	5	1	4
	2	0	2

1	PC21.0	Clean solar panels for removal of				
		lust, bird droppings, pollen,		2	0	<b>_</b> _
	l	eaves, branches etc. as per		2	0	2
		naintenance schedule				
		Ensure all electrical connections				
		as per specification, measure and				
		ecord DC voltages and currents		2	1	1
		and identify the faults in the		~	•	•
		system				
		Check for working condition of		2	4	
		uses, circuit breakers and all		2	1	1
		cables for loose connections				
		Take adequate precautionary				
		neasures while handling				
		electrical system adhering to		2	0	2
	r	elevant health and safety				
	S	standards				
	PC25.1	Jnderstand that if reason of error				
	i	s not clear, do not try ro fix				
		anything and call OEM repair and		5	2	3
		maintenance team				
	+			100	38	62
	<u> </u>			100	50	02
	DC1					
4. PSS/N6005	PC1.	Ensure effective verbal				
Develop		communications are polite,		6	2	4
coustomer		clear and completed in a timely				
relationship		manner				
skills	PC2.	Ensure promot greeting or				
		acKnowledgement and offer of		4	0	4
		assistance are provided to		т	U	-
		coustomer				
	PC3.	Ensure consumer is asked if				
		there is anything else they can		4	0	4
		be helped with				
	PC4.	Ensure tone of voice and place				
		are monitored to ensure that		6	2	4
		trust is built		_		
	PC5.					
		Ensure effective and efficient				
	FCS.	Ensure effective and efficient line of questioning is used		6	4	2
		line of questioning is used		6	4	2
	PC6.	line of questioning is used Ensure consumer needs are				
12,		line of questioning is used Ensure consumer needs are correctly identified in a timely	100	6	4 2	2
14	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner	100			
9		line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are	100			
6	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs	100			
6	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different	100		2	2
6	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and	100	4		
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain full details and seek his/her	100	4	2	2
	PC6. PC7. PC8.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain full details and seek his/her consent to begin the job	100	4	2	2
	PC6.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain full details and seek his/her consent to begin the job Understand new initiative taken	100	4	2	2
	PC6. PC7. PC8.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain full details and seek his/her consent to begin the job Understand new initiative taken up by company in reference to	100	4	2 2 0	2 2 3
	PC6. PC7. PC8.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain full details and seek his/her consent to begin the job Understand new initiative taken up by company in reference to energy conservation products by	100	4	2	2
	PC6. PC7. PC8.	line of questioning is used Ensure consumer needs are correctly identified in a timely manner Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain full details and seek his/her consent to begin the job Understand new initiative taken up by company in reference to	100	4	2 2 0	2 2 3

PC10.	Ensure power generation			
	equipment like genset, solar	4	0	4
	panels etc. and other non	•	Ũ	
	conventional energy source			
PC11.	Ensure appropriate			
	explanation/ solution/ option	4	0	4
	are determinded for the	т	Ŭ	-
	consumer's situation			
PC12.	Ensure customer			
	communications are paraphaesd	5	3	2
	to confirm understanding			
PC13.	Ensure consumer needs are	4	0	4
	recognized and acKnowledged	4	0	4
PC14.	Ensure issues are escalated or			
	advice is solicited from			
	appropriate departmental staff	3	2	1
	when necessary to meet		_	-
	consumer needs			
PC15.	Show patience : if you deal with			
1 015.	consumeron a daily basis, be			
	sure to stay patient when you	5	1	4
	meetthem and they are		•	
	stumped and frustrated			
PC16.	Show attentiveness : the ability			
FCI0.	to really listen to consumer is			
		5	2	3
	so crucial for providing graet			
DC17	service for a number of reasons			
PC17.	Show clear communication skills			
	: when it comes to important			
	points that you need to relay	5	2	3
	cleary to consumers, keep it			_
	simple and leave nothing to			
	doubt			
PC18.	Show time management skills :			
	don't waste time trying to go			
	above and beyond for a	5	2	3
	consumer in an service area	5	2	5
	where you will just end of			
	wasting both of your time			
PC19.	Show ability to "read"			
	consumer : look and listen for			
	subtle clues about their current			
	mood, patience level,	5	2	3
	personality etc. and you'll go			
	for in keeping your coustomer			
	interaction positive			
PC20.	Maintain a calming presence	5	2	3
	Show ability to use "positive	5		5
PC21.		4	0	4
DC22	language"			
PC22.	Show closing ability : being able			
	to close with a consumer means			
	being able to end the service			
	with confirmed satisfaction (or	5	1	4
	as close to it as you can			
	achieve) and with the consumer			
	feeling that everything has			
ļ	been worked on			
		100	30	70
		100	50	,,,

	1				1	
5. PSS/ N 2001 Use basic health and safety practices as the workplace	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, cuffless				
		(without folds), trousers,				
		reinforced footwear,		8	3	5
		helmets/hard hats, cap and		0	J	5
		shoulder covers, ear	100			
		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				
	PC2.	State the names and location of				
		documents that refer to health		5	1	4
		and safety in the workplace				
	PC3.	Identify job-site hazardous work				
		and state possible causes of risk				
		or accident in the workplace				
		Hazards: electrical hazards				
		(dealing with high voltage				
		equipment, power supply and				
		points, loose and naked cables and wires, electrical machines				
		and appliances, etc.); sharp				
		edged and heavy tools; heated				
		metals; oxyfuel and gas				
		cylinders; welding radiation;				
		hazardous surfaces(sharp,				
		slippery, uneven, chipped,				
		broken, etc.); hazardous				
		substances(chemicals, gas, oxy-				
		fuel, fumes, dust, hazardous waste materials, etc.); physical				
		hazards(working at heights,				
		working in windy or moist		6	2	4
		areas, large and heavy objects		·	_	•
		and machines, sharp and				
		piercing objects, moving				
		objects and part of machinery,				
		tolls and machines, intense				
		light, load noise, abnormal				
		temperature; obstructions in				
		corridors, by doors, blind turns, over stacked shelves and				
		packages, etc.); working in high				
		temperatures. Possible causes				
		of risk and accident: physical				
		actions; not following				
		instructions; inattention;				
		sickness and incapacity (such as				
		drunkenness); health hazards				
		(such as untreated injuries and				
		contagious illness); not taking safety precautions				
	L	salety precautions				

PC4.	Carry out safe working practices			
	while dealing with hazards to			
	ensure the safety of self and			
	others Safe working practices:			
	using protective clothing and			
	equipment; putting up and			
	reading safety signs; handle			
	tools in the correct manner and			
	store and maintain them			
	properly; keep work area clear of clutter, spillage and unsafe			
	object lying casually; while			
	working with electricity take all	8	3	5
	electrical precautions like		C C	•
	insulated clothing, adequate			
	equipment insulation, use of			
	control equipment, dry work			
	area, switch off the power			
	supply when not required, etc.;			
	safe lifting and carrying			
	practices; use equipment that is			
	working properly and is well			
	maintained; take due measures			
	for safety while working at heights, etc.			
PC5.	Understand different cause of			
FCJ.	electrical fire			
	Short circuit			
	Overload circuits			
	Faulty electrical			
	equipment	5	2	3
	Faulty electrical outlets			
	<ul> <li>Faulty circuit breakers</li> </ul>			
	<ul> <li>Old, outdated or</li> </ul>			
	wrongly installed			
	appliences			
PC6.	Capable to differentiate			
	between different warning signs			
	before electrical fire, such as			
	Sparks or smoke coming     subfrom a conclust			
	out from a socket			
	Burning smell	5	2	3
	Black marks or scorch			5
	marks			
	• Cracked, frayed or bare			
	cables			
	Melted plastic on cables			
	or casing			
PC7.	Use the various appropriate fire			
	extinguishers on different types	6	3	3
	of fires correctly			
PC8.	Understand types of fires: Class			
	A: e.g. ordinary solid			
	combustibles, such as wood, paper, cloth, plastic, charcoal,			
	etc.; Class B: flammable	5	2	3
	liquids; Class C: e.g.			
	combustible gases, such as			
	gasoline, propane, diesel fuel,			

٦		tar, cooking oil, and similar	1			
		substances; Class D:				
		combustible chemicals and				
		metals such as magnesium,				
		titanium, and sodium (These				
		fires burn at extremely high				
		temperatures and require				
		special suppression agents)				
		These categories of fires				
		become Class A, B, C and D				
		fires when the electrical				
		equipment that initiated the				
		fire is no longer receiving				
		electricity; Class E: e.g.				
		electrical equipment such as				
		appliances, wiring, breaker				
		panels, etc.				
-	PC9.	Demonstrate rescue techniques			2	
		applied during fire hazard		5	2	3
ř	PC10.	Demonstrate good				
		housekeeping in order to		5	2	3
		prevent fire hazards			-	-
F	PC11.	Demonstrate the correct use of			<u> </u>	2
		a fire extinguisher.		5	2	3
	PC12.	Demonstrate how to free a			-	-
	. 012.	person from electrocution		4	2	2
F	PC13.	Demonstrate how to check a				
	, 013.	person's response		4	1	3
F	PC14.	Administer appropriate first aid				
	. 014.	to victims wheneverrequired				
		e.g. in case of bleeding,		5	0	5
		choking, electric shock,		5	0	5
		poisoning etc.				
	PC15.	Demonstrate first-aid				
	reij.	procedures if the person has		4	2	2
		suffered from burns		- T	-	-
	PC16.	Demonstrate basic techniques				
	FC10.	of bandaging		6	2	4
	PC17.					
	PCI/.	Respond promptly and				
		appropriately to an accident		5	2	3
		situation or medical emergency in real or simulated		5	Z	3
	DC10	environments				
	PC18.	Demonstrate the artificial		5	2	3
	<b>D</b> C12	respiration and the CPR Process				
	PC19.	Demonstrate correct method to			2	2
		move injured people and others		4	2	2
		during an emergency			-	
				100	37	63
6. PSS/ N 1336	PC1.	Accurately receive information				
Work effectively		and instructions from the		10	-	_
with others		supervisor and fellow workers,		10	3	7
(Applicable		getting clarification where				
when working		required	400			
	PC2.	Accurately pass on information	100			
with an	FCZ.					
with an organization/in	FCZ.	to authorized persons who				
with an	FCZ.	require it and within agreed		10	3	7
with an organization/in	FCZ.	require it and within agreed timescale and confirm its		10	3	7
with an organization/in	FCZ.	require it and within agreed		10	3	7

		100	30	70
I	Escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict	10	3	7
	Demonstrate responsible and disciplined behaviors at the workplace. Disciplined behaviors: e.g. punctuality; completing tasks as per given time and standards; not gossiping and idling time; eliminating waste, honesty, etc.	10	3	7
i i	Use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism	10	3	7
	Display active listening skills while interacting with others at work	10	3	7
	Display appropriate communication etiquette while working. Communication etiquette: do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa)etc.	10	3	7
t	Consult with and assist others to maximize effectiveness and efficiency in carrying out tasks	10	3	7
a t	Display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible	10	3	7
r L	Give information to others clearly, at a pace and in a manner that helps them to understand	10	3	7

#### SECTION 2 EVIDENCE OF LEVEL

#### OPTION B

Title/Name of qu	ualification/component: Electrician Domestic Solution	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.	The job expects a person to carry out a job which may require limited range of activities routine and predictable. 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. 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.	3
Professional knowledge	<ul> <li>Basic elements of electricity, voltage, current, resistance, power, energy, and how electricity flows</li> <li>Basic Knowledge of electrical curcuits drawings and layouts</li> <li>Wires and cables, their current carrying capacity and their usage</li> <li>Standard procedures followed in house wiring</li> <li>Ratings as per technical terminology of control switches, MCB, ELCB, RCD electrical accessories and appliances used in house wiring, their purpose and functioning</li> <li>How to plan the work correctly using various safety measures. work planning : location, material required and sequence of tasks</li> </ul>	The job holder is expected to have Basic facts, process and principle applied in trade of employment. The role qualifies for Level 3. 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 equipments, so it cannot be pegged at level 2.	3

2

·	cation/component: Electrician Domestic Solution Level: 3				
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level		
Professional skill		The job holder is expected to carry out recall and demonstrate practical skill, routine and	3		
	<ul> <li>drawings/layouts according to specific situation</li> <li>Wiring selection, size, ratings of cables, accessories optimization &amp; forecasting</li> <li>Common electrical wiring faults, identification and repair of wiring of residential and commercial units</li> <li>Working safely</li> <li>Ensure of mains, distribution board and protection devices</li> <li>Ensure of new power points, extension boards</li> <li>Ensure of protective devices</li> <li>Types of earthing, procedure to lay and its connection in house wiring. Ensure of electrical appliances</li> <li>Types and use of test instruments in house wiring</li> <li>Inspection&amp; Testing</li> <li>Types of single and three phase motors</li> <li>Types of heating element, thermal relays and insulation</li> <li>Repair and maintenance of household electrical appliances</li> </ul>	repetitive in narrow range of application, hence qualifying the role for a Level 3. 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 Therefore, it cannot be pegged at level 2.			

NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	Repair and maintenance of roof top solar panel		
Core skill	<ul> <li>Develop circuit and wiring diagram and electrical signages, code specifications to plan wiring layouts, consumption points accurately, as may be required</li> <li>Use various types of tools, their functions and application for carrying out work</li> <li>Understand rating and current carrying capacity of wires, cables, fuse, switches, sockets, MCBs, ELCBs and other electrical accessories</li> <li>Lay conduit pipe concealed and open wiring, batten, casing-capping and temporary cleat wiring</li> <li>Implement system in the most economical way</li> <li>Ensure correct requirement of wires, cables, fuse, switches and other electrical accessories foroptimal expenditure</li> <li>Ensure wiring and points selected in wiring are according to load growth in future</li> <li>Understand use of under-voltage protective devices, choice of setting of protective devices, labelling of protective devices, switches and terminals</li> <li>Understand insulation resistance of all live conductors to earth, insulation resistance between live conductors</li> <li>Implement methods of protection against electric shock</li> <li>Ensure selection of equipment appropriate to external influences, access to switchgear and equipment, presence of warning signs and danger notices</li> <li>Use updated technology products and take their ageing into consideration</li> <li>Inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in wiring circuit</li> </ul>	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. 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 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	3

	ualification/component: Electrician Domestic Solution	Level: 3		
ISQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level	
	<ul> <li>Check polarity to ensure all switches are connected in phase conductors</li> <li>Check equal distribution of load on three phase wiring in large residential and commercial units</li> <li>Check the color coding, connection and identification of conductors, cables and wires</li> <li>Check routing of cables, proper selection of conductors, wires and connectors andconnection of single pole devices</li> <li>Install the protective device i.e. fuse, MCB, RCCB, RCD, MCCB's ratings as per the load</li> <li>Ensure proper working and functioning of all protective devices that are necessary to save lives of human, livestock, animals through earthing diagrams (TT)</li> <li>Ensure fuse, switch or circuit breaker is not placed in an earthed neutral conductor and are wired only in the phase conductor only</li> <li>Ensure that the correct type, size and current-carrying capacity of cables is chosen to bear the load</li> <li>Ensure that all accessible points which may be switched on/off must be easily approached by the users and made as per CEA guidelines standerds</li> <li>Make connections and operate instruments to check the healthiness of house wiring in terms of leakage insulation resistance</li> <li>Operate instruments to check the earth resistance</li> <li>Understand drawings, circuit diagrams and electrical code specifications of the electrical equipment and gadgets</li> <li>Understand the capacityin kW, load in Amperes and power</li> </ul>			

NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<ul> <li>consumption in kWH for each appliance</li> <li>Check connection of equipment andstatus of tripping device</li> <li>Ensure presence of appropriate devices for isolating and switching</li> <li>Ensure preventive maintenance, regular cleaning, oiling, greasing of household gadgets like fans, desert cooler, water pump motorsetc.</li> <li>Ensure replacement of damaged switches, MCB, fan- capacitor, regulator, lighting points i.e. holder, choke, starters, water coolers and their pump &amp; motor</li> <li>Ensure regular maintenance of electrical equipment's like-iron, toaster, induction-plate &amp; cooker.</li> <li>Ensure regular maintenance of doorbells, FL tube starters &amp; chokes</li> <li>Preventative maintenance of batteries</li> <li>Ensure solderingof winding wires, cables and their joints in electrical gadgets</li> </ul>		
Responsibility	Responsibility for own work and learning	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. Since, the job holder is expected to be 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.	3

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### SECTION 3 EVIDENCE OF NEED

#### What evidence is there that the qualification is needed?

While collecting data from secondary sources (Details mentioned in the attached skill gap report) and industry representatives, which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on dominant roles in the sector, volume of people required, quantitative and qualitative shortfall which the Industry feels they face. Governing council of PSSC gave final approval and endorsement for the same. Estimated demand for the Qualification is over 6 lakhs

#### What is the estimated uptake of this qualification and what is the basis of this estimate?

Internal Skills Gap analysis Reports for industry demand and secondary research data, though these do not lend to accurate demand projection. These include CEA and 12<sup>th</sup> plan reports.

- Feedback from industry for demand though again sample size may not lend to accurate figures
- Training duration, and current and potential training capacity envisaged

An LMIS development initiative is being put in place to be more precise regarding the demand and supply

An RFP is being issued for a more detailed occupational map and skills gap study and will be used to further provide information regarding the same.

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

- NSDC list of Approved and Under-Development QPs was checked prior to commissioning the work
- NSDC QRC team also confirmed the same

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 two year time (2018)

Please attach any 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.

- Report to the Governing Council
- Minutes of the meeting of GC meetings
- Power Sector Skill Council Skill Gap Report

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#### SECTION 4 EVIDENCE OF PROGRESSION

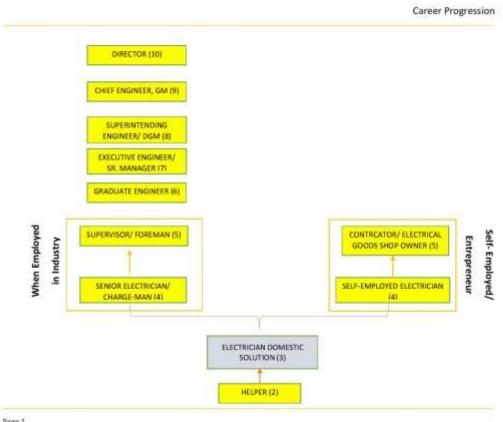
What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

• Vertical mobility have been articulated, horizontal mobility will be articulated once full occupational mapping of the sector is completed.

**Electrician Domestic Solution** 

• Vertical Mobility to Senior Electrician Charge-Man or Self-employed Electrician

Please attach any 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.



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