NSQF QUALIFICATION FILE
Approved in 15th NSQC Meeting – NCVET – 27th January, 2022

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Electronics Sector Skills Council of India(ESSCI)

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Name and contact details of individual dealing with the submission

Name: Dr. Abhilasha Gaur

Position in the organisation: COO

Address if different from above: Same as above

Tel number(s):

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List of documents submitted in support of the Qualifications File

1. Model Curriculum

Model Curriculum to be added which will include the following:

- **Indicative list of tools/equipment to conduct the training**
- **Trainers qualification**
- **Lesson Plan**
- **Distribution of training duration into theory/practical/OJT component**

SUMMARY

1	**Qualification Title:** Field Technician – UPS and Inverter
2	**Qualification Code, if any:** ELE/Q7201
3	**NCO code and occupation:** NCO-2015/7412.0801 and Sales & After Sales Service
4	**Nature and purpose of the qualification (Please specify whether qualification is short term or long term):** Responsible for installing the newly purchased UPS or inverter and interacting with customers to diagnose the problems.
5	**Body/bodies which will award the qualification:** Electronics SectorSkills Council of India
6	**Body which will accredit providers to offer courses leading to the qualification:** Electronics Sector Skills Council of India
7	**Whether accreditation/affiliation norms are already in place ornot, if applicable (if yes, attach a copy):** Yes
8	**Occupation(s) to which the qualification gives access:** Sales and After Sales Service
9	**Job description of the occupation**: The individual at work installs the newly purchased UPS or inverter and interacts with customers to diagnose problems in them, assess possible causes, rectify faults or replace faulty modules or recommends factory repairs for bigger faults.
10	**Licensing requirements:** N/A
11	**Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided):** N/A
12	**Level of the qualification in the NSQF:** Level 4
13	**Anticipated volume of training/learning required to complete the qualification:** 600 hours (Theory:180, Practical:270, OJT:150)
14	**Indicative list of training tools required to deliver this qualification:** Training kit (Trainer guide, Presentations), Participant Handbook and related SOP, Masonry equipment, Electrical equipment, wires, plugs, Screwdriver, plier, Packed, new UPS and anInverter, tools and equipment for installation, sample instructional manual, ERP software, feedback forms, various documentation forms,sample acknowledgement form, UPS, Inverter, their internal parts, Circuits and boards, requisite tools to operate UPS/Inverter, Service SOPs Document, Sample of escalation matrix, organisation structure, Personal Protection Equipment: safety glasses, head protection, rubber gloves, safety footwear, warning signs and tapes, fire extinguisher, first aid kit, fire extinguishers and warning signs

15	**Entry requirements and/or recommendations and minimum age:** 8th Grade Pass + NTC (2 years after 8th) + 2 Year NAC/relevant Experience) OR 10th Grade pass + 2 Year NTC/NAC/ relevant experience OR Certificate-NSQF (Level-3 in Maintenance Technician) with 2 Years of relevant Experience OR 12th Class and 18 Years				
16	**Progression from the qualification (Please show Professionaland academic progression):** Service Engineer- UPS Inverter and Control Panel				
17	**Arrangements for the Recognition of Prior learning (RPL):** RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack by Electronics Sector Skills Council of India (ESSCI)				
18	**International comparability where known (research evidence tobe provided):** Yet to establish				
19	**Date of planned review of the qualification:** 27/06/2025				
20	**Formal structure of the qualification** **Mandatory components**				
	Title of component and identification code/NOSs/Learning outcomes	**Estimated size (learning hours)**			**Level**
		Theory	**Practical**	**OJT**	
(i)	Bridge Module (Introduction)	06	24	00	4
(ii)	Understand requirement of customer (ELE/N0061)	40	20	50	4
(iii)	Install the UPS/Inverter (ELE/N72(	40	80	50	4
(iv)	Repair dysfunctionalUPS/inverter (ELE/N7202)	40	80	50	4
(v)	Work effectively at the workplace (ELE/N9905)	15	15	00	4
(vi)	Apply health and safety practices at the workplace (ELE/N1002)	15	15	00	4
(vii)	Employability Skills (60 Hours) (DGT/VSQ/N0102)	24	36	00	4
Sub - Total		**180**	**270**	**150**	
Total		**600**			

SECTION 1
ASSESSMENT

21	**Body/Bodies which will carry out assessment:** Electronics Sector Skills Council of India
22	**How will RPL assessment be managed and who will carry it out?** Give details of how RPL assessment for the qualification will be carried out and quality assured. The RPL assessment will be carried out through pre assessment, identifying the skills gaps, provide bridge training to cover the competency gap and then conduct final assessment of the candidates.
23	**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.** Assessment is done through third parties who are affiliated to ESSCI as Assessment Body. Assessors are trained & certified by ESSCI through Training of Assessors program. The assessment involves two processes. The first process is gathering the evidence of the competency of individuals. The second part of the assessment process is the judgement as to whether a person is competent or not. The assessment plan contains the following information: • What will be assessed, i.e. the competency based on each NOS • How assessment will occur i.e. methods of assessment • When the assessment will occur • Where the assessment will take place i.e. context of the assessment (workplace/simulation) • The criteria for decision making i.e. those aspects that will guide judgements and Where appropriate, any supplementary criteria used to make a judgement on the level of performance. The assessment is conducted through theory, viva voce and practical.

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.

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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: Field Technicians – UPS and Inverter

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Field Technician – UPS and Inverters

Qualification Pack ELE/Q7201

Sector Skill Council Electronics Sector Skills Council of India

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

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
ELE/N0061: Understand requirement of customer				
Interact with customer prior to visit	**5**	**15**	-	-
PC1. check customer complaint registered at customer care or installation schedule	2	3	-	-
PC2. make a call to customer to confirm problem and schedule the time for visit	1	5	-	-
PC3. exchange greetings with the customer and confirm the problem registered	1	2	-	-

PC4. ensure polite interaction with customer	1	2	-	-
PC5. check the warranty status and annual maintenance contract of appliance		1		
PC6. anticipate possible problems to carry tools and parts accordingly		1		
PC7. ascertain customer's location in order to make the route plan for the day		1		
Interact with customer at their premises	**15**	**15**	-	-
PC8. enquire about the issues and history of problems in the appliance	3	4	-	-
PC9. enquire about the age of appliance and status of upkeep	3	3		
PC10. identify the problem based on customer's information	3	2	-	-
PC11. discuss about the problems as well as the possible reasons	3	3		
PC12. inform about costs involved	3	3		
Suggest possible solutions to customer	**15**	**15**		
PC13. suggest possible solutions of the problems identified	5	5		
PC14. explain the methodology for servicing and specify the time required for	5	4		
PC15. provide customer's approval on further action	5	6		
Achieve productivity and quality as per company's norms	**5**	**15**		
PC16. ensure accurate assessment of the problem and necessary solution(s)	1	3		

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PC17. propose most appropriate and cost-effective service as per customer's requirement	1	2		
PC18. convey problem confidently so that customer can rely on	1	2		
PC19. ensure 100% customer satisfaction and positive feedback	1	2		
PC20. ensure zero customer complaints post service	1	2		
PC21. ensure zero repeat of same problem post service		2		
PC22. prepare most optimum route plan to complete daily target visits		2		
NOS Total	**40**	**60**	-	-
ELE/N7201: Install the UPS/Inverter				
Undertake preinstallation site visit	**5**	**10**	-	-
PC1. visit the customer's premise before carrying out the installation	1	1	-	-
PC2. interact with customer to understand where the UPS/inverter is to be installed	1	1	-	-
PC3. check whether the location meets structural requirements such as solid floor surface suitable for wheeling and heavy weight, weight and clearance requirements, etc.	1	2	-	-
PC4. carry out pre-installations/masonry/electrical work to be carried out	1	2	-	-
PC5. educate customer about keeping the equipment protected from moisture	1	2		
PC6. request appointment for the next visit		2		
Check accessories	**5**	**10**	-	-
PC7. check that the product matches with the customer order in terms of color and model	1	1	-	-

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PC8. ensure that the original packaging is retained if the UPS is to be installed later	1	1	-	-
PC9. check all supporting accessories purchased are there in the pack	1	1	-	-
PC10. ensure that there is no sign of shipping damages	1	1	-	-
PC11. check whether the required tools and fitments are available for the installation	1	2		
PC12. clear up the packaging material waste and dispose as per company's norms		2	-	-
PC13. remove watches, rings or any other metal objects before installation procedure		2	-	-
Place the UPS/Inverter at identified location	**5**	**10**		
PC14. check whether pre-installation requirements are met	1	2	-	-
PC15. ensure that the room in which the UPS is installed is well ventilated and that there is no flammable gas in the environment around	1	2	-	-
PC16. maintain minimum space needed for ventilation and service	1	2	-	-
PC17. detach all bolts and shipping brackets and separate the UPS cabinet	1	1	-	-
PC18. place the UPS at the final location, then connect the power and control wirings through the top or bottom of the cabinet		1		
PC19. follow standard wiring procedure while carrying out the electrical installation	1	1	-	-
PC20. reinstall safety shields removed during the process of installation		1		
Check functioning of the product	**5**	**5**		
PC21. align the UPS/inverter as per the instruction manual, once necessary power and control connections are made	1	2		

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PC22. demonstrate the features and utility	2	2		
PC23. explain the precautions to be taken while using the air conditioner	2	1		
Complete the documentation	**5**	**10**		
PC24. fill in customer acknowledgement form	1	2		
PC25. provide customer's signature	1	2		
PC26. complete other documentation needed for the record of completion of installation	1	3		
PC27. call customer care and inform that the job is done	2	3		
Interact with supervisor or superior	**5**	**5**		
PC28. interact time to time with the superior for understanding the work requirement	1	1		
PC29. inform the superior about the work completion	1	2		
PC30. escalate the customer issues and problems that are unresolved in the field	2	1		
PC31. document the work completed on the company ERP software for tracking and future references	1	1		
Achieve productivity and quality as per company's norms	**10**	**10**		
PC32. ensure no damage of the UPS/Inverter while removal of packaging	2	1		
PC33. place the equipment as per requirements specified in instructions manual	2	1		
PC34. educate customer on importance of proper placing	1	2		
PC35. carry and use the correct tools and equipment for installation	1	2		
PC36. operate and check that they are in a safe and stable condition	1	1		

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PC37. complete the installation within the given time limit	1	1		
PC38. educate customer on proper operation and maintenance procedures	1	1		
PC39. complete daily field schedule as per instructions/format within the designated time	1	1		
NOS Total	**40**	**60**	-	-
ELE/N7202: Repair Dysfunctional UPS/Inverter				
Understand the symptoms in the UPS/inverter and identify the fault	**10**	**10**		
PC1. diagnose the fault based on customer interaction and initial inspection	1	2		
PC2. disconnect the power source and open the cabinet doors of the equipment	1	2		
PC3. disconnect the battery and wait for electrolytic capacitor to discharge	1	1		
PC4. remove protective panels since the voltage present is potentially lethal	1	1		
PC5. check the air filters and monitor system parameters from the control panel	1	1		
PC6. carry out basic tests such as power supply inspection, volt ampere test and earth test power supply etc.	1	1		
PC7. separate and inspect every module of the unit if the fault is not identified through basic tests	2	1		
PC8. visit factory for in depth diagnosis, if problem remains un-identified at site	2	1		
Replace dysfunctional module in the UPS/inverter unit	**5**	**5**		
PC9. replace component at location, if the fault identified is because of damage of components such as fuse or battery	2	3		

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PC10. remove and replace the faulty module with a functional one, either on a second visit or as pre-identified and collected from the service center, if the problem is at the PCB level or components that cannot be replaced at site	3	2		
Confirm functionality of the repaired unit	**10**	**10**		
PC11. reassemble the unit and make all power as well as communication wirings	1	1		
PC12. ensure that the unit is functioning after switching on the power supply	1	2		
PC13. check whether all the modules of the unit is working as per specifications	1	1		
PC14. demonstrate and confirm functionality of the unit with customer	1	1		
PC15. educate the customer about cleaning procedures and other best practices	1	1		
PC16. collect necessary payments from the customer, if applicable	1	1		
PC17. fill in customer acknowledgement form.	2	1		
PC18. complete other documentation procedures to record complaint closure	2	1		
Achieve productivity and quality as per company's norms	**15**	**35**		
PC19. ensure damage free handling of the unit	**1**	**5**		
PC20. diagnose the problem accurately and in assigned time	**1**	**5**		
PC21. identify the problem modules accurately such as the power supply, battery, PCB, etc.	**1**	**5**		
PC22. repair the dysfunctional equipment within the designated time	**1**	**5**		
PC23. ensure no repetition of the issues in the equipment	**1**	**5**		

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PC24.	ensure minimum customer complaints post service	**1**	**2**		
PC25.	achieve daily target of attending the complaints	**1**	**1**		
PC26.	select the right spares according to recorded complaints at the customer care	**1**	**1**		
PC27.	inform the exact type of module requirement to the service center, if a faulty module is to be replaced	**1**	**1**		
PC28.	secure repairs completion receipt from customer	**1**	**1**		
PC29.	inform customer about the maintenance procedure and correct practices to follow in order to avoid further problems	**1**	**1**		
PC30.	ensure 100% customer satisfaction	**1**	**1**		
PC31.	receive payments as per rate sheet/ communication from customer care	**1**	**1**		
PC32.	sell related products such as new equipment or Annual Maintenance Contracts (AMC) as per company policy Knowledge	**2**	**1**		
	NOS Total	**40**	**60**	**-**	**-**

ELE/N9905: Work effectively at the workplace				
Communicate effectively at the workplace	**5**	**13**	**-**	**-**
PC1. exchange information and instruction with colleagues, and seek clarifications and feedback as necessary	1	3	-	-
PC2. assist colleagues where required	1	3	-	-
PC3. follow business communication etiquette in all interactions and communicative formats (online, digital,andin-person)	1	4	-	-
PC4. document and share all relevant information with stakeholders in agreed formats and as per agreed timelines	2	3	-	-

Work effectively	**6**	**13**	-	-
PC5. identify and obtain clarity regarding organisational, team and own goals and targets	1	2	-	-
PC6. prioritise and plan work in order to achieve goals and targets	1	2	-	-
PC7. monitor own and team performance as per agreed plan	1	2	-	-
PC8. complete duties accurately, systematically and within required timeframes	1	2	-	-
PC9. express emotions appropriately at the workplace and manage own response to heightened emotions	1	2	-	-
PC10. maintain orderliness and cleanliness in the work area	1	3	-	-
Maintain and enhance professional competence	**8**	**7**	-	-
PC11. identify own strengths and weaknesses in relation to goals and targets	1	1	-	-
PC12. adapt self, service, or product to meet success criteria	1	1	-	-
PC13. seek and select opportunities for continuous professional development	1	1	-	-
PC14. formulate a professional development plan to enhance capabilities	2	1	-	-
PC15. build or contribute to the organizational knowledge base of cases, clients, issues, solutions, andinnovations	1	1	-	-
PC16. examine developments and trends in field of work and their potential impact on work	1	1	-	-
PC17. take feedback from peers, supervisors and clients to improve own performance and practices	1	1	-	-
Work in a disciplined and ethical manner	**11**	**16**	-	-
PC18. perform tasks as per workplace standards, organisational policies and legislative requirements	2	2	-	-
PC19. display appropriate professional appearance at the workplace and adhere to the organisational dress code	1	2	-	-

PC20. demonstrate responsible and disciplined behaviour at the workplace such as punctuality; completing tasks as per given time and standards; demonstrating professional behaviour at all times, adopting environment-friendly practices, etc.	1	2	-	-
PC21. identify the cause of conflict and options for resolution with peers or escalate grievances and problems to appropriate authority as per procedure for conflict resolution	2	2	-	-
PC22. protect the rights of the client and organisation when delivering services	1	2	-	-
PC23. ensure services are delivered equally to all clients regardless of personal and cultural beliefs	1	2	-	-
PC24. operate within an agreed ethical code of practice and report unethical conduct to the appropriate authorities	2	2	-	-
PC25. follow organisational guidelines and legal requirements on disclosure and confidentiality	1	2	-	-
Uphold social diversity at the workplace	**10**	**11**	**-**	**-**
PC26. recognize and evaluate biased practices against underrepresented groups like women and persons with disabilities, in workplace systems and processes	2	2	-	-
PC27. identify and report discrimination and harassment based on gender, disability, or cultural difference at the workplace	2	2	-	-
PC28. use inclusive or neutral language and gestures in all interactions	2	2	-	-
PC29. respect the personal and professional space of others	2	2	-	-
PC30. access grievance redressal mechanisms as per legislations	2	3	-	-
NOS Total	**40**	**60**	**-**	**-**
ELE/N1002: Apply health and safety practices at the workplace				
Deal with workplace hazards	**20**	**31**	**-**	**-**
PC1. identify job-site hazards and possible causes of accident in the workplace	2	3	-	-

PC2. perform work complying to organizational safe working practices and observing hazard signs displayed on containers, equipment and in various work areas such as inside buildings, in open areas and public spaces, etc.	3	4	-	-
PC3. use appropriate personal protective equipment (PPE) for specific tasks and work conditions, contaminant (concentration w.r.t air) requirements and severity of hazard while conforming to the Indian/International standards	3	4	-	-
PC4. follow standard safety procedures while handling tool/ ,equipment, hazardous substances and while working in hazardous environments	3	4	-	-
PC5. dispose electronic waste (such as toxins; metals such as lead, cadmium, barium; flame retardant plastics, welding slag etc.) as per industry approved techniques	2	4	-	-
PC6. avoid damage of components due to negligence in electrostatic discharge (ESD) procedures	2	3	-	-
PC7. locate general health and safety equipment in the workplace such as fire extinguishers; first aid equipment; safety instruments, clothing and installations (fire exits, exhaust fans)	2	3	-	-
PC8. maintain appropriate posture while handling heavy objects	1	3	-	-
PC9. apply good housekeeping practices at all	2	3	-	-
Apply fire safety practices	**4**	**9**	**-**	**-**
PC10. take preventive measures to prevent fire hazards	2	3	-	-
PC11. · use appropriate fire extinguishers for different types of fires · Types of fires: Class A: e.g. ordinary solid combustibles, such as wood, paper, cloth, plastic, charcoal, etc.; Class B: flammable liquids and gases, such as gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class C: e.g. electrical equipment such as appliances, wiring, breaker	1	3	-	-

PC12. exhibit rescue and first-aid techniques in case of fire or electrocution	1	3	-	-
Follow emergencies, rescue and first-aid procedures	**6**	**13**	**-**	**-**
PC13. administer appropriate first aid to victims in case of bleeding, burns, choking, electric shock, poisoning etc.	1	3	-	-
PC14. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock,	1	2	-	-
PC15. participate regularly in emergency procedures such as raising alarm, safe/efficient, evacuation, correct means of taking shelter and escaping, correct assembly point, roll call, correct return to work	2	4	-	-
PC16. use correct method to move injured people and others during an emergency	2	4	-	-
Effective waste management/recycling practices	**5**	**12**	**-**	**-**
PC17. identify recyclable and non-recyclable, and hazardous waste generated	1	3	-	-
PC18. segregate waste into different categories	1	2	-	-
PC19. ensure disposal of non-recyclable waste appropriately	1	2	-	-
PC20. deposit non-recyclable and reusable material at identified location	1	3	-	-
PC21. follow processes specified for disposal of hazardouswaste	1	2	-	-
NOS Total	**35**	**65**	**-**	**-**

DGT/VSQ/N0102: Employability Skills (60 Hours)				
Introduction to Employability Skills	**1**	**1**	**-**	**-**
PC1. identify employability skills required for jobs in various industries	-	-	-	-
PC2. identify and explore learning and employability portals	-	-	-	-
Constitutional values – Citizenship	**1**	**1**	**-**	**-**

PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC4. follow environmentally sustainable practices	-	-	-	-
Becoming a Professional in the 21st Century	**2**	**4**	-	-
PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-
PC6. practice the 21st Century Skills such as Self- Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
Basic English Skills	**2**	**3**	-	-
PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC9. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
Career Development & Goal Setting	**1**	**2**	-	-
PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
Communication Skills	**2**	**2**	-	-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13. work collaboratively with others in a team	-	-	-	-
Diversity & Inclusion	**1**	**2**	-	-

PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
Financial and Legal Literacy	**2**	**3**	-	-
PC16. select financial institutions, products and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
Essential Digital Skills	**3**	**4**	-	-
PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22. use basic features of word processor, spreadsheets, and presentations	-	-	-	-
Entrepreneurship	**2**	**3**	-	-
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
Customer Service	**1**	**2**	-	-
PC26. identify different types of customers	-	-	-	-
PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-

PC28. follow appropriate hygiene and grooming standards	-	-	-	-
Getting ready for apprenticeship & Jobs	**2**	**3**	-	-
PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC31. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
NOS Total	**20**	**30**	-	-

Outcomes to be assessed/NOSs to be assessed	**Assessment criteria for the outcome**
Provided in the above section	

Means of assessment 1

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. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below.)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.

Means of assessment 2

Add boxes as required.

Pass/Fail

1. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS.
2. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

SECTION 2

25. EVIDENCE OF LEVEL

Title/Name of qualification/component: Field Technician – UPS and Inverter			**Level: 4**
NSQF Domain	**Key requirements of the job role**	**How the job role relates to the NSQF level descriptors**	**NSQF Level**
Process	**Demands a wide range of specialised technical skill, clarity of knowledge and practice in broad range of activity involving standard and non-standard practices.** • Understanding the requirement of customer • Installing the UPS/Inverter • Repairing Dysfunctional UPS/Inverter • Reporting problems to the supervisor • Interacting effectively with colleagues and superiors • Applying health and safety practices at the workplace.	A Field Technician is responsible for interacting with customers to diagnose problems, assessing possible causes, rectifying faults or replace faulty modules or recommending factory repairs for bigger faults.	4
Professional knowledge	**Factual and theoretical knowledge in broad contexts within a field of work or study.**	A Field Technician should have the knowledge of understanding the requirements of the customers, installing the UPS/Inverter and repair as and when required.	5

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Title/Name of qualification/component: Field Technician – UPS and Inverter			**Level: 4**
NSQF Domain	**Key requirements of the job role**	**How the job role relates to the NSQF level descriptors**	**NSQF Level**
	• Knowledge of the customer requirements • Installing the UPS/Inverter • Process of repairing the UPS/Inverter • Knowledge of company's policy on turnaround time, working hours	Hence Level 4	
Professional skill	**A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study.** • Communicate with the team to understand the work requirement • Identify the errors in process • Achieving quality and productivity	A Field Technician must be able to communicate with the team effectively and also identify the errors in the process during installing and repairing the UPS/Inverter Hence Level 4	4
Core skill	Reasonably good in: • Understanding the customer requirement • Installing the UPS/Inverter • Repairing the faults in UPS/Inverter	A Field Technician has to understand the requirement of the customer and work according to it to achieve full productivity and satisfaction. Hence Level 4	4
Responsibility	Responsibility of completing the work assigned and reporting the same as per standards.	A Field Technician should record the issues and also update the status of the work as per organisations policy.	4

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Title/Name of qualification/component: Field Technician – UPS and Inverter			**Level: 4**
NSQF Domain	**Key requirements of the job role**	**How the job role relates to the NSQF level descriptors**	**NSQF Level**
	• Understand the job role and follow the organisational policy • Follow safety regulations at work place • Work along with colleagues	Hence 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?**

Basis	In case of SSC	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)
Need of the qualification The Indian electronics industry is one of the largest and fastest-growing industries in the world. The market growth of Industrial Automation is expected to be at a CAGR of 11% .	The SSC would undertake market study and would enclose demand forecast for the proposed job role both on short-term and long-term basis to substantiate the requirement of the Qualification proposed. The SSC can produce the data from primary or authorized secondary sources as well.	The Submitting Body would produce any reputable and reliable research reports, such as labour market information reports; occupational mapping or similar research carried out by Ministry/State/Any other authentic source forecasting the demand for the proposed qualification
Industry Relevance We are in the process of taking industry validation.	The SSC would undertake validation of the job roles with actual end-user industry where such employment is going to be generated and absorbed instead of generic validation of industry. The SSC would submit the endorsements from users/intended users of the qualification clearly supporting or otherwise the need for trained people against specific job role. (*The*	The Submitting Body would submit the list of industry participation while preparation of the curriculum/ course content of the qualifications. These could include minutes of the meeting/ reports of these consultations

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		industry validation format to be used)	
	Usage of the qualification: This Qualification Pack will be used across Electronic industry which is organised as well as unorganised	The SSC would submit details of the employment generated (wherever applicable) and realised by virtue of training in the Qualifications of the sector earlier submitted for NSQF alignment. In case of unorganized sector, case studies or evidences may be given	The submitting body would submit the details of trained and placed data in the proposed qualification (if an existing qualification is being proposed for NSQF alignment) Information about the success of the qualification should be given (e.g. uptake figures, examples of use in recruitment and placement rates (if known) should be given. However, many of the bodies that do not have placement tracking mechanism established in place would provide necessary endorsements by the state/ ministry stating that a tracking mechanism would be institutionalized and placement records shall be provided annually or later, depending on length of qualification.
	Estimated uptake	The SSC would submit the estimated uptake of the qualification and What steps were carried out to test the likely uptake of the qualification? The basis of this estimate should include data about the number of jobs or places	The Submitting Body should submit the estimated uptake by reflecting the number of the takers for this qualification for at least two years from submission of the qualification

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		in courses of learning which will be available to people who are awarded the qualification.		
27	**Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences** N/A			
28	**What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification** This is the first time that this Qualification is being made. The national qualification registers 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? Specify the review process here** • 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 a year			

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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 across small, medium and large-scale organizations.
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.

