CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Directorate General of Training (DGT)
Government of India, Ministry of Skill Development and Entrepreneurship,
1st and 2nd Floor, CIRTES Building
Next to Pusa ITI, Pusa Campus
New Delhi - 110012

Name and address of submitting body:

Directorate General of Training (DGT)
Government of India, Ministry of Skill Development and Entrepreneurship,
1st and 2nd Floor, CIRTES Building
Next to Pusa ITI, Pusa Campus
New Delhi - 110012

Name and contact details of individual dealing with the submission

Name: Shri Shri R. K. Pathak

Position in the organisation: Deputy Director General (AP & CD)

Address if different from above:

Tel number(s): 011-25802131

E-mail address: rajkumar.pathak@gov.in

List of documents submitted in support of the Qualifications File

1. Competency-based curriculum with following details:

Model Curriculum to be added which will include the following:

- **Indicative list of tools/equipment to conduct the training:** Enclosed with curricula
- **Trainers qualification:** Indicated in the curriculum
- **Lesson Plan:** All DGT curricula are designed indicating specific practical to be carried out during training along with details of trade theory. Based on this the concerned instructor prepares the Lesson Plan with support of IMPs developed by DGT.
- **Distribution of training duration into theory/practical/OJT component:** Indicated in the curriculum

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- **SUMMARY**

1	**Qualification Title**	**Wind Power Plant Technician (Electrical)**
2	**Qualification Code, if any**	**DGT/3202**
3	**NCO code and occupation**	3131.9900 - Power Production Plant Operators, Other
4	**Nature and purpose of the qualification (Please specify whether qualification is short term or long term)**	Prepare skilled Technician to undertake the job roles of Wind Power Plant Technician (Electrical) and will enable the trainee to get familiar with works related to repair/maintenance of Electrical Equipments in industrial and domestic set up. It is a long term qualification.
5	**Body/bodies which will award the qualification**	**Directorate General of Training(DGT)**
6	**Body which will accredit providers to offer courses leading to the qualification**	**Directorate General of Training(DGT)** accredits the Training providers(BTCs/Establishments).
7	**Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)**	Yes. The accreditation/ affiliation norms are available Vide https://www.msde.gov.in/schemes-initiatives/apprenticeship-training/naps
8	**Occupation(s) to which the qualification gives access**	• Power Production Plant Operators, Other
9	**Job description of the occupation**	Install, commission, maintain, test and repair electrical equipment and systems used in Wind power plant.
10	**Licensing requirements**	NOT REQUIRED
11	**Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)**	NOT APPLICABLE
12	**Level of the qualification in the NSQF**	Level 4

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<table>
<tr><td></td><td></td><td></td></tr>
<tr><td>13</td><td>Anticipated volume of training/learning required to complete the qualification</td><td>
<table>
<tr><th>Course Element</th><th>Total Notional Training Hours</th></tr>
<tr><td>Basic Training</td><td>500</td></tr>
<tr><td>On-Job Training:-12 months:</td><td>2080</td></tr>
<tr><td>Total Hours</td><td>2580</td></tr>
</table>
</td></tr>
<tr><td>14</td><td>Indicative list of training tools required to deliver this qualification</td><td>As per Annexure - I of curriculum</td></tr>
<tr><td>15</td><td>Entry requirements and/or recommendations and minimum age</td><td>Passed 10th Class examination with science and mathematics or its equivalent</td></tr>
<tr><td>16</td><td>Progression from the qualification (Please show Professional and academic progression)</td><td>An Individual can proceed for:
Professional
• Technician
• Sr. Technician
• Supervisor
• Manager
• Entrepreneur

Academic
CITS
Diploma
Degree
PG</td></tr>
<tr><td>17</td><td>Arrangements for the Recognition of Prior learning (RPL)</td><td>Basic Training – 3 Months Rebate is allowed to any one of Electrician, Wireman, Electronic Mechanic, Technician Power Electronics and Mechanic Consumer Electronic Appliances trade CTS passout.</td></tr>
<tr><td>18</td><td>International comparability where known (research evidence to be provided)</td><td>NOT KNOWN</td></tr>
<tr><td>19</td><td>Date of planned review of the qualification.</td><td>5 Yrs from the date of approval</td></tr>
</table>

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20	**Formal structure of the qualification** **Mandatory components**		
Sl No	**Title of component and identification code/NOSs/Specific Learning outcomes**	**Estimated size (learning hours)**	**Level**
	OJT - I		
1	Follow safety procedures for electrical installations by selection of proper tools & measuring instruments.	160	3
2	Assemble, install and test wiring system & carry out soldering and crimping.	170	4
3	Construct and test various characteristics of electrical and magnetic circuits.	160	4
4	Perform basic Electric energy calculations and understand transmission and distribution of electrical power.	160	4
5	Test & Calibrate on transformers, protective relays and sequence relays.	150	4
6	Measure Earth Resistance , Insulation resistance & Perform Earthing with Surge arrestors , lightning arrestors.	150	4
7	Test a commercial wiring installation by using Megger & join power cable.	170	4
8	Identify Generator Terminal , Practice connections of Generator	130	4
9	Trouble shoot wind power plant circuits	130	4
10	Measure Power factor & Power in star – delta connected systems	130	4
11	Evaluate windiness of a place using an anemometer & prepare a report on site suitability for windmill.	150	4

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12	Install, operate & maintenance of grid connections.	130	4
13	Prepare a report on wind mill energy conversion system through sufficient audio visual sessions.	140	4
14	Test model windmill with a blower and record the observations.	150	4
	Total (OJT - I)	**2080**	4
	Total (BT - I)	500	4
	Total	**2580**	4

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SECTION 1
ASSESSMENT

21	**Body/Bodies which will carry out assessment:** Controller of Examinations, DGT
22	**How will RPL assessment be managed and who will carry it out?** Only rebate in duration (three months) allowed for ITI pass-outs in relevant trade.
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.** **(1) Assessment process:** The assessment for the year-based qualification is carried out by conducting formative assessments and summative assessment. The formative assessments for theory subjects and practical are conducted by the concerned instructors for evaluating the knowledge and skill acquired by trainees and the behavioural transformation of the trainees. This formative assessment is primarily carried out by collecting evidence of competence gained by the trainees by evaluating them at work based on assessment criteria, asking questions and initiating formative discussions to assess understanding and by evaluating records and reports and sessional marks are awarded to them. Examination is conducted in Trade theory, Workshop Calculation & Science, Engineering Drawing and Employability Skills along with practical examinations. The question papers for the theory Examinations contain objective type questions. Trade practical examinations are conducted by the Establishment/local board constituted as per guidelines issued by DGT from time to time. However, the question papers for the Trade practical & Engg. Drawing are prepared by Establishments/State Apprenticeship Advisor. The marking pattern and distribution of marks for the qualification are as per DGT approved structure issued from time to time. **(2) Minimum pass marks:** The minimum pass percentage is 40% for each Theory Examination and 60% marks for each Trade practical Examination **(3) Testing and certifications for the course:** • Online examination conducted for all theory papers. A panel of expert paper setters, who are graduates in the concerned field with minimum 5-7 years experience, is prepared for setting question papers for the Trade. The panel is vetted by the DGT.

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- Paper setters are appointed from the panel after the approval of the competent authority for setting the question paper.
- The question papers are then moderated by the Board of Moderation to see if the paper is set as per the requirement and syllabus.
- An Examination Board consisting of representatives of industry/Employer are set up to supervise and monitor the conduct of Examinations at every Centre.
- Practical & Engg. Drawing Examinations are carried out with invigilators/examiners with the overall supervision of the Examination Board.
- Examiners called for evaluation of practical should have minimum technical qualification of a Diploma in the respective engineering field. However, when diploma holders not available, the qualification is suitably relaxed.
- Examiners for practical Examinations are appointed preferably from Polytechnics/ Engineering colleges/ expert from establishment/ Government Departments or from retired qualified personnel possessing requisite qualifications and sufficient experience in the trade/discipline.

Testing centre

Testing centres for theory exam are allocated by Agencies as per registration made by apprentices in apprenticeship portal and other related criteria i.e. uploading of sessional marks in apprenticeship portal. Flying squads are constituted to check malpractices during the conduct of Online Examinations. Establishment are responsible for conducting Trade practical exam and Engg. Drawing in the Establishment by constituting Local board of examiners in consultation with the Regional Directorate for Skill Development & Entrepreneur (RDSDE)/State Apprenticeship Advisor (SAA). The question papers for trade practical & Engg. Drawing will be prepared by Establishment/ State Apprenticeship Advisor (SAA) in as per DGT guidelines. The local Board of examiners will consist of the following:

- Suitable Experts from various industries/Institutions depending on the trades in which Test will be conducted at the Centre.

Local board of examiners for practical examination will be constituted in respect of every centre by the Regional Directorate for Skill Development & Entrepreneur (RDSDE) in consultation for conducting and evaluating the Trade test on the spot. The local Board of examiners will consist of the following:-

- Chairman appointed by the employer in whose establishment Trade Testing Centre is located
- Suitable Experts from various industries/Institutions depending on the trades in which Test will be conducted at the Centre.

- Flying squads are constituted to check malpractices during the conduct of

Examinations.

- Evaluation of every practical examination is carried out by the concerned examiner (from industry/ polytechnics) with the overall supervision of the Examination Board in a free and fair manner as per the assessment criteria.
- The marks uploaded by the Establishments for trade practical , Engg. Drawing & Agencies for online theory exam in Apprenticeship portal for declaring the results through apprenticeship portal.
- The successful trainees are awarded National Apprenticeship Certificates.

Overall assessment strategy:

Assessment of the qualification evaluates trainees to show that they can integrate knowledge, skills and values for carrying out relevant tasks as per the defined assessable outcomes and assessment criteria. The trainees may choose the preferred language for assessment. The underlying principle of assessment is fairness and transparency. While assessing the trainee, assessor is directed to assess as per the defined assessment criteria against the assessable outcomes. The evidence of the competence acquired by the trainees can be obtained by conducting theory and practical examinations, observing the trainees at work, asking questions and initiating formative discussions to assess understanding and evaluating records and reports. The ultimate objective of the assessment is to assess the candidates as per the defined assessment criteria for the assessable/ learning outcomes.

Specific Arrangements for assessment:

- Assessment is outcome-based.
- There are formative and summative assessments in Theory and Practical.
- Assessment is carried out in Trade theory, Trade Practical, Workshop Calculation and Science, Engineering Drawing and Employability Skills.
- While Trade Theory and Trade Practical are used for assessing Trade-related jobs, Workshop Calculation and Science is used to test trainee's numerical skills, Drawing is used to test the ability of the trainee to draw and read sketches and Employability skills is used to test the communication and language skills of the trainee.
- In addition to demonstration of theory and practical knowledge, trainees get a chance to present total personality.

Quality assurance activities:

- Question papers for practical & Engg. Drawing are set by local board.
- Evaluation of Theory Examinations is done online.
- Trade Practical is examined by Examiner appointed by Establishment (as explained above).

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24. Assessment Evidences

Title of Component: Wind Power Plant Technician (Electrical)

Means of assessment

Assessment will be evidence based comprising the following:

Serial No.	Terminal Competency	Maximum Weightage (%)
1	Safety consciousness	15
2	Workplace hygiene	5
3	Attendance/ Punctuality	10
4	Ability to follow Manuals/ Written instructions	5
5	Application of Knowledge	10
6	Skills to handle tools & equipment	10
7	Economical use of materials	5
8	Speed in doing work	10
9	Quality in workmanship	15
10	VIVA	15
	Total Maximum Weightage (%)	100

Pass/Fail

The minimum pass percentage is 40% for each Theory Examination and 60% marks for each Trade practical Examination.

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SPECIFIC LEARNING/ ASSESSABLE OUTCOME:

SPECIFIC LEARNING OUTCOME	
LEARNING OUTCOMES	**ASSESSMENT CRITERIA**
Total: 15 months **Block – I** 1. Follow safety procedures for electrical installations by selection of proper tools & measuring instruments. 2. Assemble, install and test wiring system & carry out soldering and crimping. 3. Construct and test various characteristics of electrical and magnetic circuits. 4. Perform basic Electric energy calculations and understand transmission and distribution of electrical power. 5. Test & Calibrate on transformers, protective relays and sequence relays. 6. Measure Earth Resistance , Insulation resistance & Perform Earthing with	*Assessment Criteria for each specific learning outcome mentioned under **1st3 months** ensures the trainee achieves well developed skill with clear choice of procedure in familiar context.* *Assessment criteria should broadly cover the aspect of –* ***Planning** (Identify, ascertain, estimate etc.); **Execution** (perform, illustration, demonstration etc. by applying –* *1) a range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information* *2) Knowledge of facts, principles, processes, and general concepts, in*

Surge arrestors , lightning arrestors. 7. Test a commercial wiring installation by using Megger & join power cable. 8. Identify Generator Terminal , Practice connections of Generator 9. Trouble shoot wind power plant circuits 10. Measure Power factor & Power in star – delta connected systems 11. Evaluate windiness of a place using an anemometer & prepare a report on site suitability for windmill. 12. Prepare a report on wind mill energy conversion system through sufficient audio visual sessions. **13.** Test model windmill with a blower and record the observations.	*the field of work or study 3) Desired Mathematical Skills and some skill of collecting and organizing information, communication) and* ***Checking / Testing*** *to ensure functionality during the assessment of each outcome.* *The assessments parameters also ascertain that the candidate is responsible for own work and learning and some responsibility for other's work and learning.*

GENERIC LEARNING/ ASSESSABLE OUTCOME:

GENERIC LEARNING OUTCOME	
LEARNING OUTCOMES	**ASSESSMENT CRITERIA**
1. Recognize & comply safe working practices, environment regulation and housekeeping.	1.1 Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements.
	1.2 Recognize and report all unsafe situations according to site policy.
	1.3 Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.
	1.4 Identify, handle and store / dispose off dangerous/unsalvageable goods and substances according to site policy and procedures following safety regulations and requirements.
	1.5 Identify and observe site policies and procedures in regard to illness or accident.
	1.6 Identify safety alarms accurately.
	1.7 Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly according to site

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		accident/injury procedures.
	1.8	Identify and observe site evacuation procedures according to site policy.
	1.9	Identify Personal Productive Equipment (PPE) and use the same as per related working environment.
	1.10	Identify basic first aid and use them under different circumstances.
	1.11	Identify different fire extinguisher and use the same as per requirement.
	1.12	Identify environmental pollution & contribute to avoidance of same.
	1.13	Take opportunities to use energy and materials in an environmentally friendly manner
	1.14	Avoid waste and dispose waste as per procedure
	1.15	Recognize different components of 5S and apply the same in the working environment.
2. Understand, explain different mathematical calculation & science in the field of study including basic electrical and apply in day to day work.*[Different mathematical calculation & science -Work, Power & Energy, Algebra, Geometry & Mensuration, Trigonometry, Heat & Temperature, Levers & Simple machine, graph, Power transmission, Pressure]*	2.1	Explain concept of basic science related to the field such as Material science, Mass, weight, density, speed, velocity, heat & temperature, force, motion, pressure, heat treatment, friction.
	2.2	Measure dimensions as per drawing
	2.3	Use scale/ tapes to measure for fitting to specification.
	2.4	Comply given tolerance.
	2.5	Prepare list of appropriate materials by interpreting detail drawings and determine quantities of such materials.
	2.6	Ensure dimensional accuracy of assembly by using different instruments/gauges.
	2.7	Explain basic electricity, insulation &earthing.
3. Interpret specifications, different engineering drawing and apply for different application in the field of work. *[Different engineering drawing-Geometrical construction, Dimensioning, Layout, Method of representation, Symbol, scales, Different Projections, Machined*	3. 1.	Read & interpret the information on drawings and apply in executing practical work.
	3. 2.	Read & analyse the specification to ascertain the material requirement, tools, and machining /assembly /maintenance parameters.
	3. 3.	Encounter drawings with missing/unspecified key information and make own calculations to fill in missing dimension/parameters to carry out the work.

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components & different thread forms, Assembly drawing, Sectional views, Estimation of material, Electrical & electronic symbol]	
4. Select and ascertain measuring instrument and measure dimension of components and record data.	4.1 Select appropriate measuring instruments such as micrometers, vernier callipers, dial gauge, bevel protector and height gauge (as per tool list).
	4.2 Ascertain the functionality & correctness of the instrument.
	4.3 Measure dimension of the components & record data to analyse the with given drawing/measurement.
5. Explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality.	5.1 Explain the concept of productivity and quality tools and apply during execution of job.
	5.2 Understand the basic concept of labour welfare legislation and adhere to responsibilities and remain sensitive towards such laws.
	5.3 Knows benefits guaranteed under various acts.
6. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.	6.1 Explain the concept of energy conservation, global warming, pollution and utilize the available recourses optimally & remain sensitive to avoid environment pollution.
	6.2 Dispose waste following standard procedure.
7. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	7.1 Explain personnel finance and entrepreneurship.
	7.2 Explain role of Various Schemes and Institutes for self-employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Idea for financing/ non financing support agencies to familiarizes with the Policies /Programmes & procedure & the available scheme.
	7.3 Prepare Project report to become an entrepreneur for submission to financial institutions.
8. Plan and organize the work related to the occupation.	8.1 Use documents, drawings and recognize hazards in the work site.
	8.2 Plan workplace/ assembly location with due consideration to operational stipulation
	8.3 Communicate effectively with others and plan project

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	tasks
	8.4 Assign roles and responsibilities of the co-trainees for execution of the task effectively and monitor the same.

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SECTION 2

25. EVIDENCE OF LEVEL

Title/Name of qualification/component: Wind Power Plant Technician (Electrical)			Level: 4
NSQF Domain	**Outcomes of the Qualification/Component**	**How the outcomes relates to the NSQF level descriptors**	**NSQF Level**
Process	**Familiar, Predictable, Routine Situations of Clear Choice** • Follow safety procedures for electrical installations by selection of proper tools & measuring instruments. • Assemble, install and test wiring system & carry out soldering and crimping. • Construct and test various characteristics of electrical and magnetic circuits. • Perform basic Electric energy calculations and understand transmission and distribution of electrical power. • Install, operate & maintenance of grid connections. • Test & Calibrate on transformers, protective relays and sequence relays.	The learner requires to demonstrate a well-developed skill for example in "Assemble, install and test wiring system & carry out soldering and crimping." as indicated in the learning outcomes to achieve the tolerance levels and accuracy demanded as per the job. The learner requires to apply clear choice of procedures in familiar context as indicated in the learning outcomes like in "Perform basic Electric energy calculations and understand transmission and distribution of electrical power." The learner has to apply ones knowledge and decide what needs to be done to identify a fault/deficiency and decide how to rectify it or plan as per requirements of industrial standards. Hence NSQF Level is 4 for this descriptor.	4

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Title/Name of qualification/component: Wind Power Plant Technician (Electrical)			Level: 4
NSQF Domain	**Outcomes of the Qualification/Component**	**How the outcomes relates to the NSQF level descriptors**	**NSQF Level**
	• Measure Earth Resistance , Insulation resistance & Perform Earthing with Surge arrestors , lightning arrestors.		
Professional knowledge	**Factual Knowledge of field of Knowledge or study** Fundamentals of electricity. Concept of current, voltage, power, resistors and capacitors. Generation of DC electricity. Electrical conductors and insulators. Differentiate between AC and DC current. Types of joints and techniques of soldering. Comparison and Advantages of DC and AC systems. Sine wave, phase and phase difference. Related terms frequency, Instantaneous value, R.M.S. value Average value, Peak factor, form factor, power factor and Impedance etc.Active and Reactive power. Single Phase and three-phase	• The learner is expected to measure power factor, observe the presence of obstacles in a site suitable for windmill, Prepare a report on wind mill energy conversion system through sufficient audio visual sessions. • Wind Energy: Wind Energy Conversion, Potential, Nature of the wind, Wind Data and Energy Estimation, Site selection, Types of wind turbines, Wind farms, Wind Generation and Control., classification of wind, characteristics, offshore wind energy – Hybrid systems, wind energy potential and installation in India. • Working of Wind Power plant , Main Components. Site Selection, Concept of wind form & project cycle, Cost and economic viability of wind farm. etc.	4

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Title/Name of qualification/component: Wind Power Plant Technician (Electrical)			Level: 4
NSQF Domain	**Outcomes of the Qualification/Component**	**How the outcomes relates to the NSQF level descriptors**	**NSQF Level**
	system.Advantages of AC poly-phase system.Concept of three-phase Star and Delta connection. Line and phase voltage, current and power in a 3 phase circuits with balanced and unbalanced load.	In order to perform the above tasks, the learner requires to apply the knowledge of facts, principles, processes and general concepts of this field of work or study. Hence NSQF Level is 4 for this descriptor.	
Professional skill	• Practice on skinning, twisting and crimping. • Identify various types of cables and measure conductor size using SWG and micrometer. • Make joints on single strand conductors. Practice in crimping and soldering of joints / lugs.	In the learning outcomes for example 'Assemble, install and test wiring system & carry out soldering and crimping.', 'Perform Earthing with Surge arrestors , lightning arrestors' the learner has to apply range of cognitive and practical skills of electrical domain to accomplish tasks. He/she is able to perform basic workshop operations using suitable tools, detect the faults & troubleshoot electrical equipments. Thus the learner solves problems by selecting & applying basic methods & tools. Hence NSQF Level is 4 for this descriptor.	4
Core skill	**Skills to basic arithmetic** Understand and explain different mathematical calculation & science in the field of study including basic electrical. *[Different mathematical calculation & science -Work,*	The learner communicates with required clarity and understands the technical English. The learner has mechanical attitude, manual dexterity and perform work related mathematical calculations. The individual is expected to	4

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Title/Name of qualification/component: Wind Power Plant Technician (Electrical)			Level: 4
NSQF Domain	**Outcomes of the Qualification/Component**	**How the outcomes relates to the NSQF level descriptors**	**NSQF Level**
	Power & Energy, Algebra, Mensuration, Trigonometry, Heat & Temperature, Power transmission, Pressure]. **Understanding of social/political** • Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources. **Language to communicate** • Plan and organize the work related to the occupation.	calculate and measure dimensions of the components & record data to analyse and assess the given drawing/measurement. Performs arithmetic, algebraic & trigonometric calculations. He/she plans & organizes assigned work, detects & resolves issues during execution. The learner is sensitive to environment he ensures implementation & delivery of safe working practices. Hence NSQF Level 4 is justified for this descriptor.	
Responsibility	**Responsibility for own work and learning** • Construct and test various characteristics of electrical and magnetic circuits. • Perform basic Electric energy calculations and understand transmission and distribution of electrical power. • Test & Calibrate on transformers, protective relays and sequence relays.	The learner has the ability to take responsibility of his own job and to some extent holds responsibility for other's work to a certain extent. Has good coordination with team members and is expected to demonstrate possible solutions for problems faced by the team members and agree tasks within the team. Hence NSQF Level 4 is justified for this descriptor.	4

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Title/Name of qualification/component: Wind Power Plant Technician (Electrical)			Level: 4
NSQF Domain	**Outcomes of the Qualification/Component**	**How the outcomes relates to the NSQF level descriptors**	**NSQF Level**
	• Measure Earth Resistance , Insulation resistance & Perform Earthing with Surge arrestors , lightning arrestors. • Test a commercial wiring installation by using Megger & join power cable. • Identify Generator Terminal , Practice connections of Generator • Trouble shoot wind power plant circuits • Measure Power factor & Power in star – delta connected systems • Evaluate windiness of a place using an anemometer & prepare a report on site suitability for windmill. • Prepare a report on wind mill energy conversion system through sufficient audio visual sessions. • Test model windmill with a blower and record the observations.		

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SECTION 3
EVIDENCE OF NEED

<table>
<tr><td>26</td><td>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?
<table>
<tr><th>Basis</th><th>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</th></tr>
<tr><td>Need of the qualification</td><td>The Green Job sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labour intensive and there are many emerging trends in this sector.
Hence the qualification has been designed keeping in view to cater to the ever increasing demand of skilled Technician in consultation with stakeholders.</td></tr>
<tr><td>Industry Relevance</td><td>The job role defined for the qualification is as per the National Qualification of Occupation 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover the training is imparted in industry where such facilities/ infrastructure are available.</td></tr>
<tr><td>Usage of the qualification</td><td>The Proposed qualification will create skilled Technician for various industrial, commercial and domestic establishments in The Green Job sector.</td></tr>
<tr><td>Estimated uptake</td><td>The demand for this job role is dynamic in nature.</td></tr>
</table></td></tr>
<tr><td>27</td><td>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences.

This qualification is recommended by DGT (Regulatory Body) under Ministry of Skill Development and Entrepreneurship.</td></tr>
<tr><td>28</td><td>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
The qualification is originally designed for the Apprenticeship Training Scheme and is especially tailor made to suit the organizational requirements. No such duplicate qualification of same duration and competencies exists.</td></tr>
</table>

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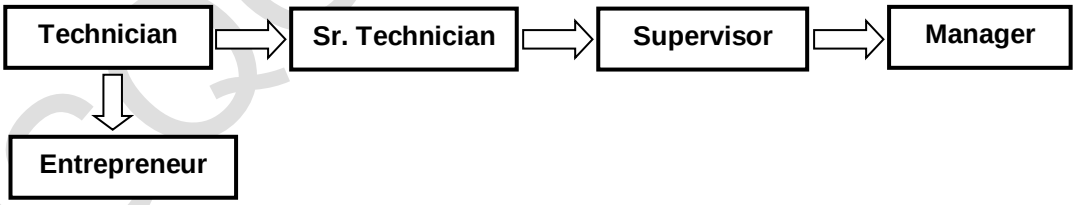
29	**What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here** • STTC for the Green Job sector was formed in 2020 to design the curriculum of this qualification under the sector. • CSTARI, the research wing of DGT, reviews and updates the qualification, in consultation with industries and other stakeholders, on a regular basis by conducting trade committee meetings. • DGT will keep on doing continuous comparative study in the trade by referring to relevant upcoming qualifications in the National Qualifications Register (NQR) and relevant sectors.

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?** On completion of the training the trainee will have an opportunity to move in vertical/horizontal pathways to promote to higher designations. The trainee can further undergo other specialised courses to excel in the relevant field. 

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