









Electrical Technician

QP Code: ELE/Q6301

Version: 3.0

NSQF Level: 3

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ELE/Q6301: Electrical Technician

Brief Job Description

The individual at work integrates modules and sub parts together that form the electronic system of the product.

Personal Attributes

The job requires the individual to be physically fit and work in high-decibel noise environment.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

- 1. ELE/N6301: Integrate electrical sub system
- 2. ELE/N9972: Communicate and coordinate effectively with others
- 3. ELE/N1003: Work effectively, sustainably and safely
- 4. DGT/VSQ/N0101: Employability Skills (30 Hours)

Qualification Pack (QP) Parameters

Sector	Electronics
Sub-Sector	Industrial Automation
Occupation	Assembly And Integration
Country	India
NSQF Level	3
Credits	14
Aligned to NCO/ISCO/ISIC Code	NCO-2004/8283.90
Minimum Educational Qualification & Experience	10th grade pass OR 8th grade pass (plus 2 year NTC/ 2 year relevant experience)









Minimum Level of Education for Training in School	8th Class
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	27/06/2025
NSQC Approval Date	27/01/2022
Version	3.0
Reference code on NQR	2022/EHW/ESSC/6656
NQR Version	1.0

Remarks:

NA









ELE/N6301: Integrate electrical sub system

Description

This OS unit is about integrating all control boards and any other electronic components to obtain the entire electrical sub system of the product

Scope

The scope covers the following:

- Understand work requirements from the supervisor
- Assemble electrical and electronic sub system
- Report problems to supervisor
- Achieve productivity, quality and safety standards as per company's policy

Elements and Performance Criteria

Understand work requirements from the supervisor

To be competent, the user/individual on the job must be able to:

- **PC1.** communicate with the supervisor in order to understand the day's production requirement and plan work
- **PC2.** apply approved drawings, job instructions or work manuals

Assemble electrical and electronic sub system

To be competent, the user/individual on the job must be able to:

- **PC3.** collect assembled pcbs from the assembly team
- **PC4.** collect consumables such as wires and connectors need for the assembly process
- **PC5.** collect the work manual/job instruction from the supervisor
- **PC6.** visually inspect the boards and components received for any physical damage, any loose or wrong connections
- **PC7.** record faults and pass the board on to the PCB assembly team for re-work
- **PC8.** follow the standard operating procedure to assemble the electrical sub system
- **PC9.** follow the standard operating procedure to assemble the electrical sub system
- **PC10.** interpret accurately drawings, wiring and job specifications/instructions
- **PC11.** ensure that the finished assembly meets specifications
- **PC12.** coordinate with the PCB assembly team to ensure that production targets are met

Report problems to supervisor

To be competent, the user/individual on the job must be able to:

- **PC13.** underline any errors in previous step of the assembly process identified
- **PC14.** report defective or inadequate number of components
- **PC15.** report about inadequate quantity of consumables such as wires, connectors, screws, nuts, etc.
- **PC16.** report any problems in the assembly line in time









Achieve productivity, quality and safety standards as per company's policy

To be competent, the user/individual on the job must be able to:

- **PC17.** accomplish 100% target for number of products to be manufactured per day
- PC18. achieve 100% of planned work as scheduled
- **PC19.** achieve zero errors as per company's standards
- **PC20.** achieve zero damage because of electrostatic discharge
- PC21. maintain work area clean and organized
- PC22. record any defects/inadequacies noted during the assembly process
- PC23. maintain safety standards as per company policy
- PC24. achieve clean work protocol

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- **KU1.** companys policies on: incentives, personnel management
- **KU2.** companys code of conduct
- KU3. importance of individuals role in the work flow
- **KU4.** organisation culture
- **KU5.** companys reporting structure
- **KU6.** companys documentation policy
- **KU7.** electro-mechanical assembly instructions
- **KU8.** general principles of wiring and assembly
- **KU9.** circuit design, block diagram of the product being assembled and functioning of its different modules
- **KU10.** fundamentals of electricity such as Ohms law, difference between Ac and DC, series and parallel connections
- **KU11.** basic electronics of components such as diode, transformer, LED, photo transistor, capacitor, resistor, inductor, thermistor, ICs
- **KU12.** how to read values of resistors, capacitors, diodes and integrated circuits with specific reference to colour coding, polarity, orientation, tolerance
- **KU13.** specific safety precautions while working in an electronic assembly unit
- **KU14.** ESD precautions
- **KU15.** protective gear such as gloves, rubber base shoes
- **KU16.** maintenance of tools used during the assembly process
- **KU17.** frequently occurring errors in the assembly process, causes and preventive measure
- **KU18.** how to communicate with PCB assembly operators in order to meet production deadlines
- **KU19.** documents and procedures used in the during the assembly process
- **KU20.** handling of different electrical and mechanical products

Generic Skills (GS)









User/individual on the job needs to know how to:

- **GS1.** use computers for documenting
- **GS2.** complete forms such as work orders, invoices, maintenance records
- **GS3.** read warnings, instructions and other text material on product labels, components, etc.
- **GS4.** read job sheets or work orders
- **GS5.** receive and ask for clarifications from supervisor on the job requirement
- **GS6.** follow standard operating procedures while making decisions
- **GS7.** take approval from supervisor in case the decision has to be made for exceptions
- **GS8.** supervisor and co-workers to achieve smooth workflow
- **GS9.** superior and co-workers to share knowledge and learning
- **GS10.** ensure quality standards and standard operating procedures are maintained
- **GS11.** ensure that the finished assembly meets specifications
- **GS12.** assemble together various control boards and other electronic components in order to obtain the electrical sub system
- **GS13.** achieve the required quality and meet overall quality standards
- **GS14.** interpret accurately drawings, wiring and job specifications/instructions
- **GS15.** improve work processes
- **GS16.** reduce repetition of errors









Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Understand work requirements from the supervisor	5	5	-	-
PC1. communicate with the supervisor in order to understand the day's production requirement and plan work	3	3	-	-
PC2. apply approved drawings, job instructions or work manuals	2	2	-	-
Assemble electrical and electronic sub system	15	20	-	-
PC3. collect assembled pcbs from the assembly team	1	2	-	-
PC4. collect consumables such as wires and connectors need for the assembly process	1	2	-	-
PC5. collect the work manual/job instruction from the supervisor	1	2	-	-
PC6. visually inspect the boards and components received for any physical damage, any loose or wrong connections	1	2	-	-
PC7. record faults and pass the board on to the PCB assembly team for re-work	1	2	-	-
PC8. follow the standard operating procedure to assemble the electrical sub system	2	2	-	-
PC9. follow the standard operating procedure to assemble the electrical sub system	2	2	-	-
PC10. interpret accurately drawings, wiring and job specifications/instructions	2	2	-	-
PC11. ensure that the finished assembly meets specifications	2	2	-	-
PC12. coordinate with the PCB assembly team to ensure that production targets are met	2	2	-	-
Report problems to supervisor	5	10	-	-
PC13. underline any errors in previous step of the assembly process identified	2	2	-	-









Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. report defective or inadequate number of components	1	3	-	-
PC15. report about inadequate quantity of consumables such as wires, connectors, screws, nuts, etc.	1	3	-	-
PC16. report any problems in the assembly line in time	1	2	-	-
Achieve productivity, quality and safety standards as per company's policy	15	25	-	-
PC17. accomplish 100% target for number of products to be manufactured per day	3	4	-	-
PC18. achieve 100% of planned work as scheduled	2	3	-	-
PC19. achieve zero errors as per company's standards	1	3	-	-
PC20. achieve zero damage because of electrostatic discharge	1	2	-	-
PC21. maintain work area clean and organized	1	3	-	-
PC22. record any defects/inadequacies noted during the assembly process	2	2	-	-
PC23. maintain safety standards as per company policy	3	2	-	-
PC24. achieve clean work protocol	2	6	-	-
NOS Total	40	60	-	-









National Occupational Standards (NOS) Parameters

NOS Code	ELE/N6301
NOS Name	Integrate electrical sub system
Sector	Electronics
Sub-Sector	Industrial Automation
Occupation	Assembly & Integration
NSQF Level	3
Credits	TBD
Version	3.0
Last Reviewed Date	27/01/2022
Next Review Date	27/06/2025
NSQC Clearance Date	27/01/2022









ELE/N9972: Communicate and coordinate effectively with others

Description

This unit is about effective, respectful communication and coordination with supervisors and colleagues

Scope

The scope covers the following:

- Communicate effectively with supervisor and colleagues
- Respect gender and ability differences

Elements and Performance Criteria

Communicate effectively with supervisor and colleagues

To be competent, the user/individual on the job must be able to:

- **PC1.** communicate potential hazards of a particular location
- PC2. comply with organisation's policies and procedures for working with colleagues
- PC3. maintain personal hygiene and professional appearance
- **PC4.** seek clarification on the information provided by supervisor, if needed
- **PC5.** respect the personal and professional space of colleagues and superiors
- **PC6.** report work completed as per the schedule to superior and inform of any deviations or anomalies
- **PC7.** analyse and act on feedback received from supervisor

Respect gender and ability differences

To be competent, the user/individual on the job must be able to:

- PC8. work depicting proper behaviour towards all genders and people with disability
- **PC9.** identify acts of discrimination and sexual harassment and report to concerned authorities

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- **KU1.** importance of personal grooming
- **KU2.** organisation's policy on code of conduct
- **KU3.** organisation's reporting structure and documentation policy
- **KU4.** how to communicate effectively through all means including face-to-face, telephonic as well as written
- **KU5.** different types of information that colleagues might need and the importance of providing the same as and when required
- **KU6.** rights and duties w.r.t PwD at workplace
- **KU7.** organisation policies and standards to support PwD









- **KU8.** gender and disability based concepts or issues such as social and cultural bias, gender roles stereotypes, gender inequality and discrimination, especially for women and transgender
- **KU9.** organisation grievance redressal mechanisms and related legislations
- **KU10.** health and safety precautions for all individuals, including PwD at workplace

Generic Skills (GS)

User/individual on the job needs to know how to:

- **GS1.** listen actively and carefully in all interactions
- **GS2.** communicate politely under all circumstances
- GS3. report potential areas of disruptions to work process in writing or in person
- **GS4.** maintain positive and effective relationships with others
- **GS5.** decide when to report to supervisor and when to deal with a colleague depending on the type of concern
- **GS6.** receive and act on supervisor's feedback in a constructive manner
- **GS7.** speak, listen, and write using gender-inclusive or gender-neutral terms and gestures
- **GS8.** be aware and accountable of ones own gender identity and role, as well as beliefs and practices about disability









Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Communicate effectively with supervisor and colleagues	27	51	-	-
PC1. communicate potential hazards of a particular location	4	7	-	-
PC2. comply with organisation's policies and procedures for working with colleagues	4	7	-	-
PC3. maintain personal hygiene and professional appearance	4	7	-	_
PC4. seek clarification on the information provided by supervisor, if needed	4	8	-	-
PC5. respect the personal and professional space of colleagues and superiors	3	8	-	-
PC6. report work completed as per the schedule to superior and inform of any deviations or anomalies	4	7	-	-
PC7. analyse and act on feedback received from supervisor	4	7	-	-
Respect gender and ability differences	8	14	-	-
PC8. work depicting proper behaviour towards all genders and people with disability	4	7	-	-
PC9. identify acts of discrimination and sexual harassment and report to concerned authorities	4	7	-	-
NOS Total	35	65	-	-









National Occupational Standards (NOS) Parameters

NOS Code	ELE/N9972
NOS Name	Communicate and coordinate effectively with others
Sector	Electronics
Sub-Sector	Generic
Occupation	Generic - Organizational Behaviour
NSQF Level	3
Credits	TBD
Version	2.0
Last Reviewed Date	24/02/2022
Next Review Date	24/06/2025
NSQC Clearance Date	24/02/2022









ELE/N1003: Work effectively, sustainably and safely

Description

This unit is about following health and safety procedures, waste management procedures and resource management in order to achieve required productivity and quality.

Scope

The scope covers the following:

- Achieve optimum productivity and quality
- Implement health and safety procedures
- Organise waste management and recycling
- Conserve resources

Elements and Performance Criteria

Achieve optimum productivity and quality

To be competent, the user/individual on the job must be able to:

- PC1. keep immediate work area clean and tidy
- **PC2.** work effectively to meet daily target
- **PC3.** deliver work of expected quality despite constraints
- **PC4.** ensure timely completion of tasks
- **PC5.** comply with organization's policies and procedures

Implement health and safety procedures

To be competent, the user/individual on the job must be able to:

- **PC6.** take ESD precautions while doing work
- **PC7.** avoid any damage in components due to negligence in ESD procedures
- **PC8.** participate in fire drills or any other safety workshops organised by the organisation
- PC9. use appropriate Personal Protective Equipment (PPE) as advised by the organisation

Organise waste management and recycling

To be competent, the user/individual on the job must be able to:

- **PC10.** identify and segregate recyclable/non-recyclable and hazardous wastes
- **PC11.** dispose waste as per the suggested procedures by the organization
- PC12. participate in waste management and waste disposal workshops organised at workplace

Conserve resources

To be competent, the user/individual on the job must be able to:

- **PC13.** use all resources judiciously
- PC14. perform routine cleaning of tools, machines and equipment
- PC15. report malfunctioning of machines and equipment
- **PC16.** connect electrical equipment and appliances properly when in use and turn off when not in use









Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- **KU1.** importance of time management
- KU2. organizational safety and health policy
- **KU3.** different waste categories such as dry, wet, recyclable, non-recyclable and single use plastic items
- **KU4.** usage of different colours of dustbins to dispose waste
- **KU5.** cause and effect of greening of jobs
- **KU6.** methods of waste disposal
- **KU7.** methods of recycling as well as repairing and reusing electronic components
- **KU8.** efficient utilisation of material and water
- KU9. basics of electricity and prevalent energy efficient devices
- **KU10.** ways to recognise common electrical problems
- **KU11.** common practices of conserving electricity

Generic Skills (GS)

User/individual on the job needs to know how to:

- **GS1.** read job cards/complaint registers for the work requirement
- **GS2.** organise work and be punctual
- GS3. read instructions, warnings, labels on equipment while doing work
- **GS4.** escalate any health and safety issues to supervisors
- **GS5.** report any inappropriate incidents/issues to the relevant person
- GS6. write in local/English language and complete written work with attention to detail









Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Achieve optimum productivity and quality	12	18	-	-
PC1. keep immediate work area clean and tidy	2	4	-	-
PC2. work effectively to meet daily target	2	4	-	-
PC3. deliver work of expected quality despite constraints	2	3	-	-
PC4. ensure timely completion of tasks	3	4	-	-
PC5. comply with organization's policies and procedures	3	3	-	-
Implement health and safety procedures	9	14	-	-
PC6. take ESD precautions while doing work	2	4	-	-
PC7. avoid any damage in components due to negligence in ESD procedures	2	3	-	-
PC8. participate in fire drills or any other safety workshops organised by the organisation	2	3	-	-
PC9. use appropriate Personal Protective Equipment (PPE) as advised by the organisation	3	4	-	-
Organise waste management and recycling	8	12	-	-
PC10. identify and segregate recyclable/non-recyclable and hazardous wastes	3	4	-	-
PC11. dispose waste as per the suggested procedures by the organization	2	4	-	-
PC12. participate in waste management and waste disposal workshops organised at workplace	3	4	-	-
Conserve resources	11	16	-	-
PC13. use all resources judiciously	2	4	-	_
PC14. perform routine cleaning of tools, machines and equipment	3	4	-	-









Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC15. report malfunctioning of machines and equipment	3	4	-	-
PC16. connect electrical equipment and appliances properly when in use and turn off when not in use	3	4	-	-
NOS Total	40	60	-	-









National Occupational Standards (NOS) Parameters

NOS Code	ELE/N1003
NOS Name	Work effectively, sustainably and safely
Sector	Electronics
Sub-Sector	Generic
Occupation	Generic - Health Safety
NSQF Level	3
Credits	TBD
Version	2.0
Last Reviewed Date	24/02/2022
Next Review Date	17/11/2025
NSQC Clearance Date	17/11/2022









DGT/VSQ/N0101: Employability Skills (30 Hours)

Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

Scope

The scope covers the following:

- Introduction to Employability Skills
- Constitutional values Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

Elements and Performance Criteria

Introduction to Employability Skills

To be competent, the user/individual on the job must be able to:

PC1. understand the significance of employability skills in meeting the job requirements

Constitutional values - Citizenship

To be competent, the user/individual on the job must be able to:

PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices

Becoming a Professional in the 21st Century

To be competent, the user/individual on the job must be able to:

PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.

Basic English Skills

To be competent, the user/individual on the job must be able to:

PC4. speak with others using some basic English phrases or sentences

Communication Skills

To be competent, the user/individual on the job must be able to:

PC5. follow good manners while communicating with others

PC6. work with others in a team









Diversity & Inclusion

To be competent, the user/individual on the job must be able to:

- **PC7.** communicate and behave appropriately with all genders and PwD
- **PC8.** report any issues related to sexual harassment

Financial and Legal Literacy

To be competent, the user/individual on the job must be able to:

- **PC9.** use various financial products and services safely and securely
- **PC10.** calculate income, expenses, savings etc.
- **PC11.** approach the concerned authorities for any exploitation as per legal rights and laws

Essential Digital Skills

To be competent, the user/individual on the job must be able to:

- PC12. operate digital devices and use its features and applications securely and safely
- **PC13.** use internet and social media platforms securely and safely

Entrepreneurship

To be competent, the user/individual on the job must be able to:

- PC14. identify and assess opportunities for potential business
- PC15. identify sources for arranging money and associated financial and legal challenges

Customer Service

To be competent, the user/individual on the job must be able to:

- **PC16.** identify different types of customers
- **PC17.** identify customer needs and address them appropriately
- **PC18.** follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

To be competent, the user/individual on the job must be able to:

- PC19. create a basic biodata
- **PC20.** search for suitable jobs and apply
- PC21. identify and register apprenticeship opportunities as per requirement

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- **KU1.** need for employability skills
- **KU2.** various constitutional and personal values
- **KU3.** different environmentally sustainable practices and their importance
- **KU4.** Twenty first (21st) century skills and their importance
- **KU5.** how to use basic spoken English language
- **KU6.** Do and dont of effective communication
- **KU7.** inclusivity and its importance
- KU8. different types of disabilities and appropriate communication and behaviour towards PwD
- **KU9.** different types of financial products and services









- **KU10.** how to compute income and expenses
- **KU11.** importance of maintaining safety and security in financial transactions
- **KU12.** different legal rights and laws
- **KU13.** how to operate digital devices and applications safely and securely
- KU14. ways to identify business opportunities
- KU15. types of customers and their needs
- **KU16.** how to apply for a job and prepare for an interview
- **KU17.** apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

User/individual on the job needs to know how to:

- **GS1.** communicate effectively using appropriate language
- GS2. behave politely and appropriately with all
- **GS3.** perform basic calculations
- **GS4.** solve problems effectively
- GS5. be careful and attentive at work
- **GS6.** use time effectively
- **GS7.** maintain hygiene and sanitisation to avoid infection









Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Introduction to Employability Skills	1	1	-	-
PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
Constitutional values – Citizenship	1	1	-	-
PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
Becoming a Professional in the 21st Century	1	3	-	-
PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
Basic English Skills	2	3	-	-
PC4. speak with others using some basic English phrases or sentences	-	-	-	-
Communication Skills	1	1	-	-
PC5. follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
Diversity & Inclusion	1	1	-	-
PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
Financial and Legal Literacy	3	4	-	-
PC9. use various financial products and services safely and securely	-	-	-	-









Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
Essential Digital Skills	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
Entrepreneurship	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
Customer Service	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
Getting ready for apprenticeship & Jobs	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-









National Occupational Standards (NOS) Parameters

NOS Code	DGT/VSQ/N0101
NOS Name	Employability Skills (30 Hours)
Sector	Cross Sectoral
Sub-Sector	Professional Skills
Occupation	Employability
NSQF Level	2
Credits	1
Version	1.0
Last Reviewed Date	NA
Next Review Date	29/01/2026
NSQC Clearance Date	29/01/2021

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

- 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.









Minimum Aggregate Passing % at QP Level: 50

(**Please note**: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
ELE/N6301.Integrate electrical sub system	40	60	-	-	100	40
ELE/N9972.Communicate and coordinate effectively with others	35	65	-	-	100	25
ELE/N1003.Work effectively, sustainably and safely	40	60	-	-	100	25
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	0	0	50	10
Total	135	215	0	0	350	100









Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
NOS	National Occupational Standard(s)
NVQF	National Vocational Qualifications Framework
NSQF	National Qualifications Framework
NVEQF	National Vocational Education Qualifications Framework
QP	Qualification pack









Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.









Knowledge and Understanding (KU) Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard. Organisational Context Organisational tontext includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility. Technical Knowledge Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities. Core Skills/ Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment in the context of the OS, these include communication related skills that are applicable to most job roles. Electives Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives. Options Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options. Sector Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.		
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National Occupational Standard	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an N
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding (K	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (G	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today world. These skills are typically needed in any work environment in today world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Electives	Electives are NOS/set of NOS that are identified by the sector as contribute to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.