

## Qualification Pack



# Electrical Assembly Operator - Control Panel

QP Code: ELE/Q7306

Version: 3.0

NSQF Level: 3

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## Qualification Pack

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## Qualification Pack

### ELE/Q7306: Electrical Assembly Operator - Control Panel

#### Brief Job Description

The individual at work mounts and installs and connects internal electronic modules devices and components on the control panel.

#### Personal Attributes

The individual must have the ability to work in high-decibel noise environment and in a standing position for long hours.

#### Applicable National Occupational Standards (NOS)

##### Compulsory NOS:

1. [ELE/N7307: Assemble Control Panel](#)
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

<b>Sector</b>	Electronics
<b>Sub-Sector</b>	Industrial Automation
<b>Occupation</b>	Assembly-I&A
<b>Country</b>	India
<b>NSQF Level</b>	3
<b>Credits</b>	15
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2004/7137.20
<b>Minimum Educational Qualification &amp; Experience</b>	8th grade pass (plus 2 year of NTC/relevant experience) OR 10th grade pass



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<b>Minimum Level of Education for Training in School</b>	8th Class
<b>Pre-Requisite License or Training</b>	NA
<b>Minimum Job Entry Age</b>	18 Years
<b>Last Reviewed On</b>	NA
<b>Next Review Date</b>	24/06/2025
<b>NSQC Approval Date</b>	24/02/2022
<b>Version</b>	3.0
<b>Reference code on NQR</b>	2022/EHW/ESSC/06668
<b>NQR Version</b>	1.0

### Remarks:

NA

## Qualification Pack

### ELE/N7307: Assemble Control Panel

#### Description

This OS unit is about making the power cord, mounting internal electronic module, devices and components within the control panel and connecting as per electrical schematics

#### Elements and Performance Criteria

##### *Understanding work requirement*

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

- PC1.** interact with the supervisor in order to understand the production schedule
- PC2.** plan the days production activities based on the supervisors instructions
- PC3.** use drawings, job instructions or work manuals
- PC4.** check availability of materials required for wiring

##### *Assembling control panel*

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

- PC5.** collect modules, devices and components required to assemble
- PC6.** visually inspect components to be assembled for any physical damage
- PC7.** ensure that the panel is positioned as prescribed and following safety norms
- PC8.** make sure that slots and bases for plug in devices are made as per design specification
- PC9.** check if holes are drilled at the right places to install different components
- PC10.** use recommended tools and test devices required for the assembly process
- PC11.** ensure that tools and equipment are in safe and usable condition
- PC12.** install the terminal strips and the neutral bus as defined in the schematics
- PC13.** place relays, shunts, transformers, power supply and any other components in designated bins as per bill of material
- PC14.** strictly follow the design provided in the schematics
- PC15.** ensure that there are no short circuits caused and use rubber washers as mentioned in the schematic
- PC16.** choose prescribed size of wires for inter connection between various components
- PC17.** secure all the components using connectors and securing devices
- PC18.** follow applicable local electrical codes and standards
- PC19.** return all tools and equipment to stores at the end of each days activities
- PC20.** check the assembled panel and make sure that all activities have been completed and that all devices have been securely installed

##### *Reporting to superior*

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

- PC21.** highlight any errors in previous step of the assembly process identified
- PC22.** report defective or inadequate number of components in time
- PC23.** report about inadequate quantity of consumables such as connectors, screws, nuts, etc.

##### *Achieving productivity, quality and safety standards*

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

- PC25.** meet 100% daily or monthly target
- PC26.** achieve zero errors in assembling as per company policy
- PC27.** achieve zero component damage due to electrostatic discharge
- PC28.** check any repetitive defects during the assembly process
- PC29.** keep work area clean and organised
- PC30.** identify problems on the assembly line and alert in time
- PC31.** achieve 100% compliance with health and safety guidelines and rules
- PC24.** achieve 100% work schedule as planned for the day

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** companys policies on: incentives, delivery standards and personnel management
- KU2.** reporting and documentation processes
- KU3.** importance of the individuals role in the workflow
- KU4.** reporting structure
- KU5.** electro-mechanical assembly and wiring instructions
- KU6.** hazards associated with panel assembly and wiring and how they can be avoided
- KU7.** general principles of wiring and assembly
- KU8.** procedure followed to carry out insulation stripping, securing of cables and wires, cable routing, cable forming/bending, colour coding wires and cables
- KU9.** types of cables such as single core/multicore/fibre optic cable, etc.
- KU10.** types of components and sub-assemblies used in the panel assembly process
- KU11.** preparations and precautions to be taken on the components and the panel before assembly process
- KU12.** basics of automation and electro mechanical control systems
- KU13.** regulations applicable during selection of wiring/cabling
- KU14.** methods of attaching labels, warning signs on the panel
- KU15.** basic operation of PLCs, relays, contactors, circuit breakers, solenoids, actuators, controllers, etc.
- KU16.** motors, generators, starters and their controls
- KU17.** safety norms in handling electrical/electronic components and electrostatic discharge
- KU18.** customer safety requirements and applicable safety standards
- KU19.** ISO standards and procedures applicable for assembly activities
- KU20.** fundamentals of electricity such as Ohms law, difference between AC and DC, series and parallel connections
- KU21.** components such as diode, transformer, LED, photo transistor, capacitor, resistor, inductor, thermistor, ICs, connectors
- KU22.** how to read values, colour coding, polarity, orientation, tolerance
- KU23.** specific safety precautions while working in an electronic assembly unit

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- KU24.** protective gear such as goggles, gloves, rubber shoes, etc.
- KU25.** selection and maintenance of various tools used during the assembly process
- KU26.** frequently occurring errors, causes and preventive measures
- KU27.** work place norms 5S and Kaizen

### Generic Skills (GS)

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

- GS1.** read warnings, instructions and other text material on product labels, components, etc.
- GS2.** read drawings and job sheets or work orders
- GS3.** use computers for documentation or record keeping
- GS4.** complete forms such as work orders, invoices, maintenance records
- GS5.** deliver work on time to the next process
- GS6.** share work load with other operators
- GS7.** cabinet assembly, bucket assembly, shelf/ door assembly, cable assembly
- GS8.** electrical parts, mechanical parts, electronic parts and their wiring
- GS9.** colour codes, labels and specifications
- GS10.** packaging standards and product delivery modes
- GS11.** quality standards and pricing of product
- GS12.** use screw driver, ratchets, spring driver, speciality wrenches, inspection fixtures, wire cutter, pliers, tester, spanner, hammer, hand bender, ladder, knife, voltmeter, ammeter, wattmeter, MEGGER etc.
- GS13.** create a hazard-free work environment
- GS14.** supervisor to achieve the daily production target
- GS15.** co-workers in order to share and learn
- GS16.** analyse errors to avoid repetition in future
- GS17.** improve work process

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Understanding work requirement</i>	<b>8</b>	<b>8</b>	-	-
<b>PC1.</b> interact with the supervisor in order to understand the production schedule	2	2	-	-
<b>PC2.</b> plan the days production activities based on the supervisors instructions	2	2	-	-
<b>PC3.</b> use drawings, job instructions or work manuals	2	2	-	-
<b>PC4.</b> check availability of materials required for wiring	2	2	-	-
<i>Assembling control panel</i>	<b>21</b>	<b>30</b>	-	-
<b>PC5.</b> collect modules, devices and components required to assemble	2	2	-	-
<b>PC6.</b> visually inspect components to be assembled for any physical damage	2	2	-	-
<b>PC7.</b> ensure that the panel is positioned as prescribed and following safety norms	2	2	-	-
<b>PC8.</b> make sure that slots and bases for plug in devices are made as per design specification	1	2	-	-
<b>PC9.</b> check if holes are drilled at the right places to install different components	2	1	-	-
<b>PC10.</b> use recommended tools and test devices required for the assembly process	1	2	-	-
<b>PC11.</b> ensure that tools and equipment are in safe and usable condition	1	2	-	-
<b>PC12.</b> install the terminal strips and the neutral bus as defined in the schematics	1	2	-	-
<b>PC13.</b> place relays, shunts, transformers, power supply and any other components in designated bins as per bill of material	1	2	-	-
<b>PC14.</b> strictly follow the design provided in the schematics	2	1	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC15.</b> ensure that there are no short circuits caused and use rubber washers as mentioned in the schematic	1	2	-	-
<b>PC16.</b> choose prescribed size of wires for inter connection between various components	1	2	-	-
<b>PC17.</b> secure all the components using connectors and securing devices	1	2	-	-
<b>PC18.</b> follow applicable local electrical codes and standards	1	2	-	-
<b>PC19.</b> return all tools and equipment to stores at the end of each days activities	1	2	-	-
<b>PC20.</b> check the assembled panel and make sure that all activities have been completed and that all devices have been securely installed	1	2	-	-
<i>Reporting to superior</i>	<b>3</b>	<b>6</b>	-	-
<b>PC21.</b> highlight any errors in previous step of the assembly process identified	1	2	-	-
<b>PC22.</b> report defective or inadequate number of components in time	1	2	-	-
<b>PC23.</b> report about inadequate quantity of consumables such as connectors, screws, nuts, etc.	1	2	-	-
<i>Achieving productivity, quality and safety standards</i>	<b>8</b>	<b>16</b>	-	-
<b>PC25.</b> meet 100% daily or monthly target	1	2	-	-
<b>PC26.</b> achieve zero errors in assembling as per company policy	1	2	-	-
<b>PC27.</b> achieve zero component damage due to electrostatic discharge	1	2	-	-
<b>PC28.</b> check any repetitive defects during the assembly process	1	2	-	-
<b>PC29.</b> keep work area clean and organised	1	2	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC30.</b> identify problems on the assembly line and alert in time	1	2	-	-
<b>PC31.</b> achieve 100% compliance with health and safety guidelines and rules	1	2	-	-
<b>PC24.</b> achieve 100% work schedule as planned for the day	1	2	-	-
<b>NOS Total</b>	<b>40</b>	<b>60</b>	-	-



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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	ELE/N7307
<b>NOS Name</b>	Assemble Control Panel
<b>Sector</b>	Electronics
<b>Sub-Sector</b>	Industrial Automation
<b>Occupation</b>	MANUFACTURING
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	24/02/2022
<b>Next Review Date</b>	24/06/2025
<b>NSQC Clearance Date</b>	24/02/2022

## Qualification Pack

### 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



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- 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

## Qualification Pack

### Assessment Criteria

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



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### National Occupational Standards (NOS) Parameters

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

## Qualification Pack

### 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



## Qualification Pack

### 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

## Qualification Pack

### Assessment Criteria

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



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



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### National Occupational Standards (NOS) Parameters

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



## Qualification Pack

### 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

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### *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



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- 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

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	<b>1</b>	<b>1</b>	-	-
<b>PC1.</b> understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values - Citizenship</i>	<b>1</b>	<b>1</b>	-	-
<b>PC2.</b> identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	<b>1</b>	<b>3</b>	-	-
<b>PC3.</b> 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.	-	-	-	-
<i>Basic English Skills</i>	<b>2</b>	<b>3</b>	-	-
<b>PC4.</b> speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	<b>1</b>	<b>1</b>	-	-
<b>PC5.</b> follow good manners while communicating with others	-	-	-	-
<b>PC6.</b> work with others in a team	-	-	-	-
<i>Diversity &amp; Inclusion</i>	<b>1</b>	<b>1</b>	-	-
<b>PC7.</b> communicate and behave appropriately with all genders and PwD	-	-	-	-
<b>PC8.</b> report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	<b>3</b>	<b>4</b>	-	-
<b>PC9.</b> use various financial products and services safely and securely	-	-	-	-

### Qualification Pack

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	-	-	-	-
<i>Essential Digital Skills</i>	<b>4</b>	<b>6</b>	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	<b>3</b>	<b>5</b>	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	<b>2</b>	<b>2</b>	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship &amp; Jobs</i>	<b>1</b>	<b>3</b>	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
<b>NOS Total</b>	<b>20</b>	<b>30</b>	-	-

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	DGT/VSQ/N0101
<b>NOS Name</b>	Employability Skills (30 Hours)
<b>Sector</b>	Cross Sectoral
<b>Sub-Sector</b>	Professional Skills
<b>Occupation</b>	Employability
<b>NSQF Level</b>	2
<b>Credits</b>	1
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	NA
<b>Next Review Date</b>	29/01/2026
<b>NSQC Clearance Date</b>	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 Element/ 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 Element/ PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
6. To pass the Qualification Pack assessment, every trainee should score the Recommended Pass % aggregate for the QP.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.



## 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/N7307.Assemble Control Panel	40	60	-	-	100	60
ELE/N9972.Communicate and coordinate effectively with others	35	65	-	-	100	15
ELE/N1003.Work effectively, sustainably and safely	40	60	-	-	100	15
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	0	0	50	10
<b>Total</b>	<b>135</b>	<b>215</b>	<b>-</b>	<b>-</b>	<b>350</b>	<b>100</b>



## Qualification Pack

### Acronyms

<b>NOS</b>	National Occupational Standard(s)
<b>NSQF</b>	National Skills Qualifications Framework
<b>QP</b>	Qualifications Pack
<b>TVET</b>	Technical and Vocational Education and Training

## Qualification Pack

### Glossary

<b>Sector</b>	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.
<b>Sub-sector</b>	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
<b>Occupation</b>	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
<b>Job role</b>	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
<b>Occupational Standards (OS)</b>	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.
<b>Performance Criteria (PC)</b>	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
<b>National Occupational Standards (NOS)</b>	NOS are occupational standards which apply uniquely in the Indian context.
<b>Qualifications Pack (QP)</b>	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.
<b>Unit Code</b>	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
<b>Unit Title</b>	Unit title gives a clear overall statement about what the incumbent should be able to do.
<b>Description</b>	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.
<b>Scope</b>	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.

## Qualification Pack

<b>Knowledge and Understanding (KU)</b>	<p>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.</p>
<b>Organisational Context</b>	<p>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.</p>
<b>Technical Knowledge</b>	<p>Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.</p>
<b>Core Skills/ Generic Skills (GS)</b>	<p>Core skills or 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.</p>
<b>Electives</b>	<p>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.</p>
<b>Options</b>	<p>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.</p>