Qualification Pack

Drone Manufacturing and Assembly Technician

QP Code: ELE/Q7307

Version: 3.0

NSQF Level: 4

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Contents

Qualification Pack

ELE/Q7307: Drone Manufacturing and Assembly Technician

Brief Job Description

A Drone Manufacturing and Assembly Technician is responsible for assembling, testing, and maintaining drones as per industry standards. The role covers interpreting assembly drawings, integrating components like motors, ESCs, flight controllers, and sensors, and ensuring proper calibration and programming for safe and efficient flight. Technicians also perform troubleshooting, quality checks, and upgrades while following safety and ESD practices. This role supports applications of drones across sectors such as agriculture, logistics, surveillance, and defence.

Personal Attributes

The individual must have attention to detail, logical thinking, and ability to execute the repair and maintenance activity as per client's requirement. The individual should be good at following instructions and work collaboratively with diverse teams. S/he must stay abreast with technology changes, and demonstrate strong technical expertise. Also, s/he must exhibit good customer interaction - courtesy, problem-solving, reliability, good decision-making skills, etc.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. ELE/N7311: Understanding Drone Fundamentals, Types, Applications, and Assembly
2. ELE/N7312: Testing, Calibration, Programming, and Quality Assurance of Drones
3. ELE/N7313: Troubleshooting, Repair, Upgrades, and Continuous Improvement of Drones
4. DGT/VSQ/N0101: Employability Skills (30 Hours)

Qualification Pack (QP) Parameters

Sector	Electronics
Sub-Sector	E-Mobility and Battery
Occupation	Assembly-EM&B
Country	India
NSQF Level	4
Credits	17

Qualification Pack

Aligned to NCO/ISCO/ISIC Code	NCO-2015/8212.0400
Minimum Educational Qualification & Experience	12th grade Pass (12th grade or equivalent) with NA of experience OR 10th grade pass (10th grade or equivalent) with 3 Years of experience Relevant Experience in Electronics Domain. OR Previous relevant Qualification of NSQF Level (Certificate-NSQF (Level-3 in relevant domain)) with 3 Years of experience Relevant Experience in Electronics Domain.
Minimum Level of Education for Training in School	10th Class
Pre-Requisite License or Training	NA
Minimum Job Entry Age	16 Years
Last Reviewed On	NA
Next Review Date	27/10/2028
NSQC Approval Date	16/12/2025
Version	3.0
Reference code on NQR	QG-03-EH-04687-2025-V2-ESSC
NQR Version	2

Remarks:

NA

ELE/N7311: Understanding Drone Fundamentals, Types, Applications, and Assembly

Description

This NOS covers the knowledge of basic drone principles, different types of drones, their applications across sectors, and the fundamental components and processes involved in drone assembly and integration.

Scope

The scope covers the following :

- Fundamentals of Drones
- Drone Components and Assembly Design
- Assembly Procedure and Documentation

Elements and Performance Criteria

Fundamentals of Drones

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

PC1. Identify and describe drone types (fixed-wing, rotary-wing, hybrid) and categories (nano, micro, small, medium, large).

PC2. Explain applications of drones across sectors (agriculture, defence, logistics, surveillance, mapping, cinematography, disaster management).

PC3. Relate application demands (payload, sensors, range, endurance, flight conditions) with changes in design and manufacturing requirements.

Drone Components and Assembly Design

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

PC4. Identify and describe the function of major drone components (frame, motors, ESCs, flight controllers, GPS, sensors, batteries, propellers, antennas).

PC5. Interpret CAD drawings, exploded views, wiring diagrams, and technical datasheets for different drone categories.

PC6. Prepare Bills of Materials (BOM) and part lists using suitable design or ERP software.

PC7. Identify tools, jigs, and fixtures required for precision assembly and fastening of drone components.

PC8. Verify incoming components against the BOM and ensure compliance with design tolerances and quality standards.

Assembly Procedure and Documentation

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

PC9. Plan the assembly sequence as per the drone type and complexity.

PC10. Assemble the drone frame and structural components following torque, alignment, and balance specifications.

PC11. Mount motors, ESCs, and propellers in the correct configuration (X, +, or H orientation) as per the design.

PC12. Connect wiring harnesses, power distribution boards, and connectors using standard soldering and crimping techniques.

PC13. Install and secure the flight controller, sensors, and GPS units ensuring vibration isolation where required.

PC14. Integrate communication modules (RF, telemetry, GPS receivers) as per design specifications.

PC15. Assemble and connect the battery unit with power safety mechanisms (fuses, BMS, connectors).

PC16. Inspect all assemblies for loose fittings, short circuits, polarity errors, and misalignments.

PC17. Document assembly steps, component traceability, and deviations from drawings using organizational templates.

PC18. Perform a dry-run pre-power check to confirm continuity, polarity, and mechanical integrity before powering the drone.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. Knowledge of drone types categories and sector wise applications

KU2. Understanding of design requirements based on payload range endurance and operating conditions

KU3. Knowledge of major drone components and their functions

KU4. Understanding of assembly procedures quality standards and documentation requirements

KU5. Knowledge of electrical mechanical safety and pre power inspection practices

Generic Skills (GS)

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

GS1. Ability to interpret technical drawings wiring diagrams and datasheets

GS2. Ability to plan and execute drone assembly as per specifications

GS3. Ability to use tools jigs and fixtures for precise assembly

GS4. Ability to inspect assemblies identify faults and ensure compliance

GS5. Ability to document assembly activities and follow standard procedures

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Fundamentals of Drones	**6**	**9**	**-**	**-**
PC1. Identify and describe drone types (fixed-wing, rotary-wing, hybrid) and categories (nano, micro, small, medium, large).	-	-	-	-
PC2. Explain applications of drones across sectors (agriculture, defence, logistics, surveillance, mapping, cinematography, disaster management).	-	-	-	-
PC3. Relate application demands (payload, sensors, range, endurance, flight conditions) with changes in design and manufacturing requirements.	-	-	-	-
Drone Components and Assembly Design	**12**	**17**	**-**	**-**
PC4. Identify and describe the function of major drone components (frame, motors, ESCs, flight controllers, GPS, sensors, batteries, propellers, antennas).	-	-	-	-
PC5. Interpret CAD drawings, exploded views, wiring diagrams, and technical datasheets for different drone categories.	-	-	-	-
PC6. Prepare Bills of Materials (BOM) and part lists using suitable design or ERP software.	-	-	-	-
PC7. Identify tools, jigs, and fixtures required for precision assembly and fastening of drone components.	-	-	-	-
PC8. Verify incoming components against the BOM and ensure compliance with design tolerances and quality standards.	-	-	-	-
Assembly Procedure and Documentation	**22**	**34**	**-**	**-**
PC9. Plan the assembly sequence as per the drone type and complexity.	-	-	-	-
PC10. Assemble the drone frame and structural components following torque, alignment, and balance specifications.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. Mount motors, ESCs, and propellers in the correct configuration (X, +, or H orientation) as per the design.	-	-	-	-
PC12. Connect wiring harnesses, power distribution boards, and connectors using standard soldering and crimping techniques.	-	-	-	-
PC13. Install and secure the flight controller, sensors, and GPS units ensuring vibration isolation where required.	-	-	-	-
PC14. Integrate communication modules (RF, telemetry, GPS receivers) as per design specifications.	-	-	-	-
PC15. Assemble and connect the battery unit with power safety mechanisms (fuses, BMS, connectors).	-	-	-	-
PC16. Inspect all assemblies for loose fittings, short circuits, polarity errors, and misalignments.	-	-	-	-
PC17. Document assembly steps, component traceability, and deviations from drawings using organizational templates.	-	-	-	-
PC18. Perform a dry-run pre-power check to confirm continuity, polarity, and mechanical integrity before powering the drone.	-	-	-	-
NOS Total	**40**	**60**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	ELE/N7311
NOS Name	Understanding Drone Fundamentals, Types, Applications, and Assembly
Sector	Electronics
Sub-Sector	
Occupation	Assembly-I&A
NSQF Level	4
Credits	4.5
Version	1.0
Last Reviewed Date	16/12/2025
Next Review Date	27/10/2028
NSQC Clearance Date	16/12/2025

ELE/N7312: Testing, Calibration, Programming, and Quality Assurance of Drones

Description

This NOS covers the skills required to test and calibrate drone systems, program flight controllers, verify performance parameters, and ensure compliance with quality and safety standards.

Scope

The scope covers the following :

- Pre-Flight Testing and Calibration
- Programming and Functional Validation
- Flight Testing and Quality Assurance

Elements and Performance Criteria

Pre-Flight Testing and Calibration

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

PC1. Conduct pre-flight functional checks and visual inspections for drones of different categories.

PC2. Verify battery health, charging cycles, and current ratings using test equipment

PC3. Test electronic subsystems (ESCs, motors, GPS modules, sensors) using multimeters, oscilloscopes, and specialized diagnostic tools.

PC4. Perform continuity checks and insulation resistance testing of wiring harnesses

PC5. Calibrate sensors (IMU, accelerometer, gyroscope, barometer, magnetometer) according to category requirements.

PC6. Calibrate GPS units and confirm lock-on performance under different environmental conditions.

Programming and Functional Validation

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

PC7. Configure flight controllers with firmware updates, PID tuning, and category-specific parameters (payload balance, hovering stability, altitude limits).

PC8. Program communication protocols (RC transmitters, telemetry systems, failsafe modes) for safe flight.

PC9. Simulate drone flight dynamics (lift, drag, thrust, pitch, roll, yaw, stability) using software simulators before live testing.

PC10. Adjust thrust-to-weight ratio configurations for different payload conditions

PC11. Validate redundancy mechanisms (dual GPS, dual IMU, return-to-home systems) in programming logic.

Flight Testing and Quality Assurance

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

PC12. Conduct controlled live flight tests including take-off, hovering, forward flight, and soft landing.

PC13. Assess drone performance against design requirements (flight time, payload endurance, stability).

PC14. Record real-time telemetry and flight data for performance analysis.

PC15. Compare flight test results with design specifications and identify discrepancies.

PC16. Document test results, calibration reports, and corrective actions in QA-approved formats.

PC17. Use QA/PLM software tools to update product history and compliance logs.

PC18. Approve the drone for release only after all performance and safety requirements are successfully validated.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. Knowledge of pre flight inspection procedures and functional testing requirements

KU2. Understanding of battery health evaluation and electrical testing methods

KU3. Knowledge of sensor calibration techniques and flight controller configuration

KU4. Understanding of flight dynamics performance parameters and quality standards

KU5. Knowledge of documentation QA processes and compliance requirements

Generic Skills (GS)

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

GS1. Ability to conduct inspections testing and calibration systematically

GS2. Ability to configure program and validate flight controller settings

GS3. Ability to analyze flight data and identify performance deviations

GS4. Ability to operate testing instruments and simulation software effectively

GS5. Ability to document test results and follow quality approval procedures

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Pre-Flight Testing and Calibration	**14**	**20**	**-**	**-**
PC1. Conduct pre-flight functional checks and visual inspections for drones of different categories.	-	-	-	-
PC2. Verify battery health, charging cycles, and current ratings using test equipment	-	-	-	-
PC3. Test electronic subsystems (ESCs, motors, GPS modules, sensors) using multimeters, oscilloscopes, and specialized diagnostic tools.	-	-	-	-
PC4. Perform continuity checks and insulation resistance testing of wiring harnesses	-	-	-	-
PC5. Calibrate sensors (IMU, accelerometer, gyroscope, barometer, magnetometer) according to category requirements.	-	-	-	-
PC6. Calibrate GPS units and confirm lock-on performance under different environmental conditions.	-	-	-	-
Programming and Functional Validation	**12**	**17**	**-**	**-**
PC7. Configure flight controllers with firmware updates, PID tuning, and category-specific parameters (payload balance, hovering stability, altitude limits).	-	-	-	-
PC8. Program communication protocols (RC transmitters, telemetry systems, failsafe modes) for safe flight.	-	-	-	-
PC9. Simulate drone flight dynamics (lift, drag, thrust, pitch, roll, yaw, stability) using software simulators before live testing.	-	-	-	-
PC10. Adjust thrust-to-weight ratio configurations for different payload conditions	-	-	-	-
PC11. Validate redundancy mechanisms (dual GPS, dual IMU, return-to-home systems) in programming logic.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Flight Testing and Quality Assurance	**14**	**23**	**-**	**-**
PC12. Conduct controlled live flight tests including take-off, hovering, forward flight, and soft landing.	-	-	-	-
PC13. Assess drone performance against design requirements (flight time, payload endurance, stability).	-	-	-	-
PC14. Record real-time telemetry and flight data for performance analysis.	-	-	-	-
PC15. Compare flight test results with design specifications and identify discrepancies.	-	-	-	-
PC16. Document test results, calibration reports, and corrective actions in QA-approved formats.	-	-	-	-
PC17. Use QA/PLM software tools to update product history and compliance logs.	-	-	-	-
PC18. Approve the drone for release only after all performance and safety requirements are successfully validated.	-	-	-	-
NOS Total	**40**	**60**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	ELE/N7312
NOS Name	Testing, Calibration, Programming, and Quality Assurance of Drones
Sector	Electronics
Sub-Sector	
Occupation	Assembly-I&A
NSQF Level	4
Credits	6.5
Version	1.0
Last Reviewed Date	16/12/2025
Next Review Date	27/10/2028
NSQC Clearance Date	16/12/2025

ELE/N7313: Troubleshooting, Repair, Upgrades, and Continuous Improvement of Drones

Description

This NOS defines the capability to diagnose faults, carry out repairs, perform system upgrades, and implement continuous improvement practices to enhance drone performance, reliability, and safety.

Scope

The scope covers the following :

- Troubleshooting and Repair
- Upgrades and Design Feedback
- Documentation and Innovation
- Safety, Work Ethics, and Compliance

Elements and Performance Criteria

Troubleshooting and Repair

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

PC1. Diagnose technical issues in drones using systematic troubleshooting methods and diagnostic software.

PC2. Repair or replace faulty components such as motors, ESCs, sensors, GPS modules, wiring, or batteries.

PC3. Validate repair work through integrated functional and flight-readiness testing.

Upgrades and Design Feedback

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

PC4. Upgrade drone capacity (payload, endurance, flight range) through hardware modifications or optimized programming.

PC5. Implement software and firmware upgrades to enhance drone category performance.

PC6. Review feedback on recurring failures to improve CAD designs, BOM accuracy, and manufacturing processes.

Documentation and Innovation

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

PC7. Maintain repair, upgrade, and improvement records as per organizational formats.

PC8. Stay updated with emerging drone technologies, programming techniques, and manufacturing trends.

PC9. Assist to prototyping, pilot testing, and documentation of new drone models or assembly methods.

Safety, Work Ethics, and Compliance

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

PC10. Apply ESD safety practices, PPE, and grounding requirements across all drone processes.

PC11. Follow organizational policies on workplace discipline, ethics, and environmental sustainability.

PC12. Ensure DGCA compliance with national and international standards for drone assembly, testing, and operations.

PC13. Maintain confidentiality of organizational data and respect intellectual property rights.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. Knowledge of systematic troubleshooting methods for drone systems

KU2. Understanding of drone components repair replacement and validation processes

KU3. Knowledge of hardware software and firmware upgrade techniques

KU4. Understanding of documentation practices design feedback and innovation processes

KU5. Knowledge of safety standards compliance requirements and work ethics

Generic Skills (GS)

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

GS1. Ability to diagnose faults using tools software and logical methods

GS2. Ability to repair replace and test drone components effectively

GS3. Ability to implement upgrades and suggest design improvements

GS4. Ability to maintain accurate records and support prototyping activities

GS5. Ability to follow safety ethics confidentiality and regulatory compliance

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Troubleshooting and Repair	**9**	**15**	**-**	**-**
PC1. Diagnose technical issues in drones using systematic troubleshooting methods and diagnostic software.	-	-	-	-
PC2. Repair or replace faulty components such as motors, ESCs, sensors, GPS modules, wiring, or batteries.	-	-	-	-
PC3. Validate repair work through integrated functional and flight-readiness testing.	-	-	-	-
Upgrades and Design Feedback	**9**	**15**	**-**	**-**
PC4. Upgrade drone capacity (payload, endurance, flight range) through hardware modifications or optimized programming.	-	-	-	-
PC5. Implement software and firmware upgrades to enhance drone category performance.	-	-	-	-
PC6. Review feedback on recurring failures to improve CAD designs, BOM accuracy, and manufacturing processes.	-	-	-	-
Documentation and Innovation	**10**	**14**	**-**	**-**
PC7. Maintain repair, upgrade, and improvement records as per organizational formats.	-	-	-	-
PC8. Stay updated with emerging drone technologies, programming techniques, and manufacturing trends.	-	-	-	-
PC9. Assist to prototyping, pilot testing, and documentation of new drone models or assembly methods.	-	-	-	-
Safety, Work Ethics, and Compliance	**12**	**16**	**-**	**-**
PC10. Apply ESD safety practices, PPE, and grounding requirements across all drone processes.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. Follow organizational policies on workplace discipline, ethics, and environmental sustainability.	-	-	-	-
PC12. Ensure DGCA compliance with national and international standards for drone assembly, testing, and operations.	-	-	-	-
PC13. Maintain confidentiality of organizational data and respect intellectual property rights.	-	-	-	-
NOS Total	**40**	**60**	**-**	**-**

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	ELE/N7313
NOS Name	Troubleshooting, Repair, Upgrades, and Continuous Improvement of Drones
Sector	Electronics
Sub-Sector	
Occupation	Assembly-I&A
NSQF Level	4
Credits	5
Version	1.0
Last Reviewed Date	16/12/2025
Next Review Date	27/10/2028
NSQC Clearance Date	16/12/2025

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	16/12/2025
Next Review Date	27/10/2028
NSQC Clearance Date	16/12/2025

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 the proportion of marks for Theory and Skills Practical for each PC.

2. The assessment for the theory part will be based on the knowledge bank of questions created by the SSC.

3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/optional NOS/set of NOS.

4. Individual assessment agencies will create unique question papers for the 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 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 : 70

(**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/N7311.Understanding Drone Fundamentals, Types, Applications, and Assembly	40	60	-	-	100	30
ELE/N7312.Testing, Calibration, Programming, and Quality Assurance of Drones	40	60	-	-	100	30
ELE/N7313.Troubleshooting, Repair, Upgrades, and Continuous Improvement of Drones	40	60	-	-	100	30
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	10
Total	**140**	**210**	**-**	**-**	**350**	**100**

Acronyms

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

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 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 (GS)	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.
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.