



Telecom Infrastructure Inspection Engineer (Drone-based)

QP Code: TEL/Q6801

Version: 1.0

NSQF Level: 5.5

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TEL/Q6801: Telecom Infrastructure Inspection Engineer (Drone-based)

Brief Job Description

A Telecom Infrastructure Inspection Engineer (Drone-based) is responsible for inspecting and assessing telecom towers and infrastructure using unmanned aerial vehicles (UAVs) or drones. This role combines telecom engineering knowledge with drone operation and data analysis skills to ensure telecom structures' safety, functionality, and compliance.

Personal Attributes

The individual in this role should possess strong analytical and technical interpretation skills to assess complex telecom infrastructure conditions. The individual should have keen attention to detail, spatial awareness, and a methodical data collection and reporting approach. The individual should be capable of working independently in the field and have good communication abilities to coordinate with stakeholders.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [TEL/N6803: Plan Drone-Based Inspection of Telecom Infrastructure](#)
2. [TEL/N6299: Conduct Aerial Inspection Using Drones](#)
3. [TEL/N6801: Collect and Analyse Inspection Data](#)
4. [TEL/N6802: Generate Inspection Reports and Visual Models](#)
5. [TEL/N6292: Implement safety and regulatory procedures in drone operations](#)
6. [DGT/VSQ/N0102: Employability Skills \(60 Hours\)](#)

Qualification Pack (QP) Parameters

Sector	Telecom
Sub-Sector	Network Managed Services
Occupation	Network Operation & Maintenance
Country	India
NSQF Level	5.5
Credits	19

Aligned to NCO/ISCO/ISIC Code	NCO-2015/2153.9900
Minimum Educational Qualification & Experience	Completed 2nd year of UG (UG Diploma) (3-year/ 4-years UG) OR Completed 2nd year diploma after 12th OR Previous relevant Qualification of NSQF Level (4.5) with 1.5 years of experience relevant experience OR Previous relevant Qualification of NSQF Level (4) with 3 Years of experience relevant experience
Minimum Level of Education for Training in School	Not Applicable
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	NA
NSQC Approval Date	
Version	1.0

TEL/N6803: Plan Drone-Based Inspection of Telecom Infrastructure

Description

This OS covers assessing inspection sites, verifying drone readiness, and coordinating with stakeholders to ensure safe and compliant drone-based infrastructure inspections.

Scope

The scope covers the following :

- Understand drone design and support minor customization
- Assess inspection requirements and site parameters
- Develop inspection plans and flight strategies
- Coordinate with stakeholders to understand environmental and safety factors

Elements and Performance Criteria

Understand drone design and support minor customization

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

- PC1.** identify key components of a drone including airframe, motors, ESCs, flight controller, battery, and payload mounts.
- PC2.** interpret drone design specifications such as payload capacity, motor rating, and frame dimensions.
- PC3.** perform minor physical repairs or part replacements (e.g., arms, propellers, mounts) using standard tools.
- PC4.** support basic customization of payload integration (e.g., attaching a different sensor or camera) as per inspection needs.
- PC5.** collaborate with drone engineers or OEMs to suggest design modifications based on field performance issues.
- PC6.** document component-level issues, repairs performed, and custom modifications for maintenance logs.

Assess inspection requirements and site parameters

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

- PC7.** obtain and interpret telecom tower layout drawings, site maps, and antenna configurations
- PC8.** assess tower height, tilt angle, structure type, and mounted equipment to determine inspection zones
- PC9.** identify access constraints, electromagnetic interference zones, and no-fly zones around the site
- PC10.** evaluate historical inspection data or maintenance logs to refine inspection focus
- PC11.** analyse client's scope of work, deliverables, and expected data output formats
- PC12.** determine drone take-off and landing points based on site terrain and environmental constraints

Develop inspection plans and flight strategies

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

- PC13.** define drone flight paths to ensure optimal camera angles, overlap percentages, and line of sight
- PC14.** choose suitable drones and sensor payloads (e.g., RGB, thermal, LiDAR) based on structural inspection needs
- PC15.** determine ground control point (GCP) requirements or GPS calibration needs based on data precision goals
- PC16.** plan for signal handoff protocols in case of tall structures or urban interference
- PC17.** calculate estimated flight time, battery swaps, storage requirements, and mission sequencing
- PC18.** integrate weather forecasts (wind speed, visibility, precipitation) into flight planning and schedule buffer time
- PC19.** assign responsibilities to the flight crew, including visual observers, payload operators, and data handlers

Ensure compliance and calibration coordination

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

- PC20.** verify UAV registration, pilot credentials, and equipment airworthiness in line with DGCA or local authority norms
- PC21.** coordinate with airspace regulators to obtain flight clearance (e.g., NPNT approval, UTM permissions)
- PC22.** conduct pre-flight calibration of gimbals, cameras, IMUs, and GNSS receivers
- PC23.** cross-check compass interference zones and set correct return-to-home (RTH) protocols
- PC24.** ensure mission-specific checklists, risk mitigation plans, and SOPs are documented and acknowledged by the team
- PC25.** maintain a centralised record of all flight plans, permission documents, calibration logs, and stakeholder approvals

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** basic design principles of drones, including quadcopter frame types, balance, and center of gravity.
- KU2.** functions of major drone components and their interconnections (flight controller, motors, ESCs, GPS, battery, etc.)
- KU3.** tools and techniques for safe removal, replacement, and testing of modular drone parts.
- KU4.** common issues and wear-and-tear areas in drone systems encountered during field operations.
- KU5.** purpose, objectives, and critical components of the infrastructure inspection being conducted using drones
- KU6.** standard pre-inspection planning process, including how to assess environmental and safety risks at the site
- KU7.** geospatial considerations in flight planning including terrain, obstacles, and electromagnetic zones.
- KU8.** regulatory frameworks applicable to drone operations (e.g., DGCA guidelines).

- KU9.** airspace classifications (controlled, restricted, and uncontrolled zones) and how to verify GPS signal strength at the inspection site
- KU10.** ground-level safety hazards, including potential slip, trip, and fall risks for personnel and obstacles for drone take-off and landing
- KU11.** common sources of electromagnetic interference and radio frequency disturbances that could disrupt drone control or navigation
- KU12.** importance of sensor calibration and protocols for performing calibration checks.
- KU13.** battery management principles, including pre-flight charging protocols and safe battery handling procedures
- KU14.** types of permissions and documentation required for legal flight execution
- KU15.** roles and responsibilities of various stakeholders (site engineers, safety officers, clients, property owners) in the inspection planning and approval process

Generic Skills (GS)

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

- GS1.** communicate effectively with clients, pilots, and regulatory authorities
- GS2.** make quick and informed decisions in response to flight challenges or emergencies
- GS3.** manage project timelines and inspection schedules effectively
- GS4.** apply critical thinking and decision-making for planning and prioritising tasks
- GS5.** resolve operational issues and conflicts with stakeholders professionally
- GS6.** plan and prioritise multiple flight operations to ensure timely execution
- GS7.** maintain attention to detail while documenting flight operations and safety protocols
- GS8.** work collaboratively with team members to ensure smooth coordination of drone operation
- GS9.** apply problem-solving techniques to optimise flight performance and safety

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Understand drone design and support minor customization</i>	6	6	-	2
PC1. identify key components of a drone including airframe, motors, ESCs, flight controller, battery, and payload mounts.	1	1	-	-
PC2. interpret drone design specifications such as payload capacity, motor rating, and frame dimensions.	1	1	-	1
PC3. perform minor physical repairs or part replacements (e.g., arms, propellers, mounts) using standard tools.	1	1	-	-
PC4. support basic customization of payload integration (e.g., attaching a different sensor or camera) as per inspection needs.	1	1	-	1
PC5. collaborate with drone engineers or OEMs to suggest design modifications based on field performance issues.	1	1	-	-
PC6. document component-level issues, repairs performed, and custom modifications for maintenance logs.	1	1	-	-
<i>Assess inspection requirements and site parameters</i>	9	17	-	3
PC7. obtain and interpret telecom tower layout drawings, site maps, and antenna configurations	2	3	-	1
PC8. assess tower height, tilt angle, structure type, and mounted equipment to determine inspection zones	1	3	-	-
PC9. identify access constraints, electromagnetic interference zones, and no-fly zones around the site	2	2	-	-
PC10. evaluate historical inspection data or maintenance logs to refine inspection focus	1	2	-	1
PC11. analyse client's scope of work, deliverables, and expected data output formats	1	3	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. determine drone take-off and landing points based on site terrain and environmental constraints	2	4	-	1
<i>Develop inspection plans and flight strategies</i>	8	18	-	3
PC13. define drone flight paths to ensure optimal camera angles, overlap percentages, and line of sight	1	3	-	1
PC14. choose suitable drones and sensor payloads (e.g., RGB, thermal, LiDAR) based on structural inspection needs	2	2	-	-
PC15. determine ground control point (GCP) requirements or GPS calibration needs based on data precision goals	1	3	-	1
PC16. plan for signal handoff protocols in case of tall structures or urban interference	1	2	-	-
PC17. calculate estimated flight time, battery swaps, storage requirements, and mission sequencing	1	2	-	-
PC18. integrate weather forecasts (wind speed, visibility, precipitation) into flight planning and schedule buffer time	1	3	-	1
PC19. assign responsibilities to the flight crew, including visual observers, payload operators, and data handlers	1	3	-	-
<i>Ensure compliance and calibration coordination</i>	7	19	-	2
PC20. verify UAV registration, pilot credentials, and equipment airworthiness in line with DGCA or local authority norms	2	3	-	1
PC21. coordinate with airspace regulators to obtain flight clearance (e.g., NPNT approval, UTM permissions)	1	3	-	-
PC22. conduct pre-flight calibration of gimbals, cameras, IMUs, and GNSS receivers	1	4	-	1
PC23. cross-check compass interference zones and set correct return-to-home (RTH) protocols	1	3	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC24. ensure mission-specific checklists, risk mitigation plans, and SOPs are documented and acknowledged by the team	1	3	-	-
PC25. maintain a centralised record of all flight plans, permission documents, calibration logs, and stakeholder approvals	1	3	-	-
NOS Total	30	60	-	10

National Occupational Standards (NOS) Parameters

NOS Code	TEL/N6803
NOS Name	Plan Drone-Based Inspection of Telecom Infrastructure
Sector	Telecom
Sub-Sector	
Occupation	Network Operation & Maintenance
NSQF Level	5.5
Credits	4
Version	1.0
Next Review Date	NA

TEL/N6299: Conduct Aerial Inspection Using Drones

Description

This OS involves executing drone flights to capture high-resolution images, videos, and sensor data of telecom towers and related infrastructure.

Scope

The scope covers the following :

- Prepare for drone-based inspection at the site
- Execute aerial inspection operations
- Ensure safety, signal integrity, and quality data capture

Elements and Performance Criteria

Prepare for drone-based inspection at the site

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

- PC1.** verify weather conditions, GNSS signal strength, and magnetic interference before initiating flight
- PC2.** perform pre-flight checks of drone hardware, sensors, firmware, and battery health
- PC3.** calibrate the compass, IMU, gimbal, and payload sensors as per the mission requirements
- PC4.** set appropriate flight parameters, including altitude, speed, geofencing, and return-to-home settings
- PC5.** establish a visual line of sight (VLOS) or BVLOS protocol based on mission type and legal permissions
- PC6.** brief the ground crew and visual observers on their roles and emergency procedures

Execute aerial inspection operations

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

- PC7.** launch and operate the drone to follow the predefined flight path over telecom infrastructure
- PC8.** hover and perform slow fly-bys around critical telecom components, including antennas, RRUs, feeders, masts, cables, mounts, cable trays, and tower junctions
- PC9.** capture high-resolution stills and 4K/8K videos with 70-90% image overlap to enable accurate photogrammetry or 3D modelling
- PC10.** operate and calibrate advanced payloads such as thermal sensors (e.g., for hotspot detection) and LiDAR (e.g., for tower lean analysis)
- PC11.** adjust camera tilt, zoom, and frame rate based on inspection targets and lighting conditions
- PC12.** annotate captured visuals in real-time using onboard mapping or inspection software to flag defects or inspection markers.
- PC13.** maintain consistent flight telemetry tracking, including altitude, GPS coordinates, IMU status, and battery discharge rate

Ensure safety, signal integrity, and quality data capture

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

- PC14.** avoid signal disruption to operational telecom networks during drone operation

- PC15.** implement failsafe protocols such as pause, return-to-home, or emergency landing in response to system alerts or environmental hazards
- PC16.** follow collision avoidance protocols when flying in proximity to tower components or cables
- PC17.** perform controlled landing at the designated take-off point after completing data collection
- PC18.** back up flight data immediately post-mission and label data with metadata (site, time, GPS, sensor type)

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** aerodynamics and flight principles related to UAV stability and control.
- KU2.** camera and sensor specifications (e.g., megapixel count, thermal range, LiDAR resolution).
- KU3.** types of telecom infrastructure and typical inspection points (e.g., guy wires, connectors, feeders).
- KU4.** signal interference risks from electromagnetic fields and tower equipment.
- KU5.** GNSS accuracy levels and use of RTK/PPK techniques for enhanced geolocation.
- KU6.** pre-flight and post-flight drone checklist protocols.
- KU7.** role of UTM systems and communication protocols in aerial traffic management.
- KU8.** emergency landing procedures and return-to-home triggers.
- KU9.** local legal limits for height, proximity to infrastructure, and operational hours for drones.
- KU10.** battery management strategies and fail-safe settings for long-duration flights.
- KU11.** safety procedures for urban and remote inspection sites.

Generic Skills (GS)

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

- GS1.** communicate inspection needs and flight updates clearly with team members and stakeholders.
- GS2.** analyse flight telemetry data to make informed mid-flight decisions.
- GS3.** apply situational judgment to handle mid-air obstacles or technical disruptions.
- GS4.** manage time effectively to execute multiple inspections within a scheduled time block.
- GS5.** maintain composure and awareness during extended or high-stress inspection operations.
- GS6.** document technical details and anomalies with precision and clarity.
- GS7.** adapt camera angles and sensor modes dynamically based on on-site lighting and equipment layout.
- GS8.** follow safety, ethical, and regulatory norms while operating drones in sensitive telecom zones.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for drone-based inspection at the site</i>	8	20	-	4
PC1. verify weather conditions, GNSS signal strength, and magnetic interference before initiating flight	2	3	-	1
PC2. perform pre-flight checks of drone hardware, sensors, firmware, and battery health	1	3	-	1
PC3. calibrate the compass, IMU, gimbal, and payload sensors as per the mission requirements	2	4	-	-
PC4. set appropriate flight parameters, including altitude, speed, geofencing, and return-to-home settings	1	4	-	-
PC5. establish a visual line of sight (VLOS) or BVLOS protocol based on mission type and legal permissions	2	4	-	1
PC6. brief the ground crew and visual observers on their roles and emergency procedures	-	2	-	1
<i>Execute aerial inspection operations</i>	13	27	-	3
PC7. launch and operate the drone to follow the predefined flight path over telecom infrastructure	2	3	-	-
PC8. hover and perform slow fly-bys around critical telecom components, including antennas, RRUs, feeders, masts, cables, mounts, cable trays, and tower junctions	1	5	-	1
PC9. capture high-resolution stills and 4K/8K videos with 70–90% image overlap to enable accurate photogrammetry or 3D modelling	2	5	-	1
PC10. operate and calibrate advanced payloads such as thermal sensors (e.g., for hotspot detection) and LiDAR (e.g., for tower lean analysis)	2	5	-	-
PC11. adjust camera tilt, zoom, and frame rate based on inspection targets and lighting conditions	2	3	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. annotate captured visuals in real-time using onboard mapping or inspection software to flag defects or inspection markers.	2	4	-	-
PC13. maintain consistent flight telemetry tracking, including altitude, GPS coordinates, IMU status, and battery discharge rate	2	2	-	1
<i>Ensure safety, signal integrity, and quality data capture</i>	9	13	-	3
PC14. avoid signal disruption to operational telecom networks during drone operation	2	2	-	1
PC15. implement failsafe protocols such as pause, return-to-home, or emergency landing in response to system alerts or environmental hazards	2	3	-	-
PC16. follow collision avoidance protocols when flying in proximity to tower components or cables	2	2	-	1
PC17. perform controlled landing at the designated take-off point after completing data collection	1	3	-	-
PC18. back up flight data immediately post-mission and label data with metadata (site, time, GPS, sensor type)	2	3	-	1
NOS Total	30	60	-	10

National Occupational Standards (NOS) Parameters

NOS Code	TEL/N6299
NOS Name	Conduct Aerial Inspection Using Drones
Sector	Telecom
Sub-Sector	
Occupation	Network Operation and Maintenance
NSQF Level	5.5
Credits	3
Version	1.0
Next Review Date	NA

TEL/N6801: Collect and Analyse Inspection Data

Description

This OS focuses on collecting and organising inspection data captured through drone flights.

Scope

The scope covers the following :

- Retrieve and organise inspection data
- Analyse visual and sensor data
- Compare and interpret data for infrastructure assessment

Elements and Performance Criteria

Retrieve and organise inspection data

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

- PC1.** retrieve captured data from drone storage or cloud-based sync tools, including images, videos, thermal data or lidar files
- PC2.** verify file integrity and naming conventions based on inspection logs or site IDs
- PC3.** categorise visual and sensor data according to tower sections (e.g., base, mid, apex) and asset types
- PC4.** use inspection software or GIS tools to geotag images and synchronise with flight telemetry
- PC5.** convert raw drone footage into usable formats using image processing or media conversion software
- PC6.** compress high-resolution data without compromising critical inspection visibility
- PC7.** store raw data in a secure, access-controlled repository as per organisational protocols
- PC8.** backup original data and create a working copy for processing and review
- PC9.** apply metadata tagging for easy indexing, version control, and retrieval of inspection files

Analyse visual and sensor data

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

- PC10.** zoom in on high-resolution images to identify anomalies such as rust, tilt, cracks, or missing components.
- PC11.** detect alignment issues or component dislocation using visual triangulation or 3D overlay tools
- PC12.** analyse thermal images to detect overheating cables, modules, or potential fire hazards
- PC13.** interpret LiDAR point clouds for assessing tower verticality, lean, or vegetation encroachment
- PC14.** detect signs of bird nesting, obstruction, cable sagging, or antenna misalignment
- PC15.** assess the condition of bolts, ladders, grounding systems, clamps, and other accessories
- PC16.** flag images or frames with anomalies for further technical review
- PC17.** compile deviation data and classify issues by severity and potential operational impact
- PC18.** validate GPS coordinates of anomalies against telecom asset location databases
- PC19.** use AI/ML-based anomaly detection tools where available to cross-verify manual findings

- PC20.** document unresolved or unclear defects for on-site validation if required
- PC21.** identify patterns across inspections that may indicate recurring issues or environmental damage
- PC22.** summarise analytical findings in alignment with project scope, client requirements, and telecom standards

Compare and interpret data for infrastructure assessment

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

- PC23.** match captured data with tower schematics, RF layout drawings, and mounting plans
- PC24.** validate component positioning and angular orientations against engineering design
- PC25.** interpret deviation trends in comparison to previous inspection cycles
- PC26.** use GIS or CAD software to map infrastructure conditions geographically
- PC27.** assess if detected defects impact RF coverage, mechanical stability, or safety compliance
- PC28.** determine the urgency of repair or replacement based on the severity of the findings
- PC29.** flag high-risk anomalies for immediate escalation
- PC30.** collaborate with structural or RF engineers to interpret complex or ambiguous findings
- PC31.** generate condition indexes or grading scores based on standard inspection frameworks

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** data classification protocols for organising captured content by component or inspection criteria
- KU2.** basics of structural and RF component layouts of telecom towers.
- KU3.** common defects in telecom infrastructure and their visual indicators
- KU4.** basics of photogrammetry, orthomosaic creation, and 3D reconstruction
- KU5.** use of thermal imagery and interpretation of thermal gradients
- KU6.** image processing tools used for file conversion, enhancement, and analysis
- KU7.** principles of LiDAR scanning and digital surface modeling
- KU8.** file storage protocols, data integrity checks, and version control practices
- KU9.** metadata relevance including geolocation, timestamps, and flight altitude.
- KU10.** standards and tolerances in telecom structural inspection (as per OEM or IS codes)
- KU11.** tools for visual annotation, geotagging, and anomaly marking
- KU12.** regulatory norms around inspection documentation and evidence capture
- KU13.** comparative analysis techniques against historical records
- KU14.** image overlap, resolution, and clarity parameters for precise interpretation
- KU15.** integration of flight telemetry data into inspection mapping
- KU16.** use of automation or AI-driven inspection analytics
- KU17.** impact of structural anomalies on telecom signal strength or tower stability
- KU18.** data privacy and cyber security protocols for sensitive infrastructure visuals

Generic Skills (GS)

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

- GS1.** apply analytical thinking to interpret inspection visuals accurately
- GS2.** communicate findings clearly with engineers and project stakeholders
- GS3.** manage digital records systematically and maintain data confidentiality
- GS4.** prioritise defects based on severity and telecom safety impact
- GS5.** collaborate with drone pilots, ai tool operators, and inspection reviewers.
- GS6.** solve problems related to data corruption, unreadable files, or low-quality imager
- GS7.** adapt to new inspection software or analytical tools
- GS8.** maintain attention to detail while reviewing large volumes of image/sensor data
- GS9.** manage time efficiently during post-inspection analysis and reporting

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Retrieve and organise inspection data</i>	7	15	-	3
PC1. retrieve captured data from drone storage or cloud-based sync tools, including images, videos, thermal data or lidar files	-	3	-	-
PC2. verify file integrity and naming conventions based on inspection logs or site IDs	2	1	-	1
PC3. categorise visual and sensor data according to tower sections (e.g., base, mid, apex) and asset types	1	1	-	1
PC4. use inspection software or GIS tools to geotag images and synchronise with flight telemetry	1	2	-	-
PC5. convert raw drone footage into usable formats using image processing or media conversion software	-	2	-	-
PC6. compress high-resolution data without compromising critical inspection visibility	1	1	-	-
PC7. store raw data in a secure, access-controlled repository as per organisational protocols	1	1	-	-
PC8. backup original data and create a working copy for processing and review	-	2	-	-
PC9. apply metadata tagging for easy indexing, version control, and retrieval of inspection files	1	2	-	1
<i>Analyse visual and sensor data</i>	12	25	-	5
PC10. zoom in on high-resolution images to identify anomalies such as rust, tilt, cracks, or missing components.	-	2	-	1
PC11. detect alignment issues or component dislocation using visual triangulation or 3D overlay tools	1	1	-	-
PC12. analyse thermal images to detect overheating cables, modules, or potential fire hazards	1	2	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. interpret LiDAR point clouds for assessing tower verticality, lean, or vegetation encroachment	1	2	-	1
PC14. detect signs of bird nesting, obstruction, cable sagging, or antenna misalignment	1	1	-	1
PC15. assess the condition of bolts, ladders, grounding systems, clamps, and other accessories	1	1	-	-
PC16. flag images or frames with anomalies for further technical review	1	2	-	-
PC17. compile deviation data and classify issues by severity and potential operational impact	1	3	-	-
PC18. validate GPS coordinates of anomalies against telecom asset location databases	1	2	-	1
PC19. use AI/ML-based anomaly detection tools where available to cross-verify manual findings	-	3	-	-
PC20. document unresolved or unclear defects for on-site validation if required	2	2	-	-
PC21. identify patterns across inspections that may indicate recurring issues or environmental damage	1	2	-	1
PC22. summarise analytical findings in alignment with project scope, client requirements, and telecom standards	1	2	-	-
<i>Compare and interpret data for infrastructure assessment</i>	11	20	-	2
PC23. match captured data with tower schematics, RF layout drawings, and mounting plans	2	3	-	-
PC24. validate component positioning and angular orientations against engineering design	1	3	-	-
PC25. interpret deviation trends in comparison to previous inspection cycles	2	2	-	1
PC26. use GIS or CAD software to map infrastructure conditions geographically	2	2	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC27. assess if detected defects impact RF coverage, mechanical stability, or safety compliance	1	2	-	1
PC28. determine the urgency of repair or replacement based on the severity of the findings	-	2	-	-
PC29. flag high-risk anomalies for immediate escalation	1	2	-	-
PC30. collaborate with structural or RF engineers to interpret complex or ambiguous findings	-	2	-	-
PC31. generate condition indexes or grading scores based on standard inspection frameworks	2	2	-	-
NOS Total	30	60	-	10

National Occupational Standards (NOS) Parameters

NOS Code	TEL/N6801
NOS Name	Collect and Analyse Inspection Data
Sector	Telecom
Sub-Sector	
Occupation	Network Operation & Maintenance
NSQF Level	5.5
Credits	4
Version	1.0
Next Review Date	NA

TEL/N6802: Generate Inspection Reports and Visual Models

Description

This OS involves compiling inspection findings into clear, structured reports with annotated visuals and recommended actions.

Scope

The scope covers the following :

- Compile and structure inspection reports
- Generate and integrate visual models
- Maintain documentation and communication records

Elements and Performance Criteria

Compile and structure inspection reports

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

- PC1.** compile inspection findings with corresponding visuals and metadata into a structured reporting format
- PC2.** incorporate annotated images or video snapshots to highlight identified defects or anomalies
- PC3.** include geo-coordinates, timestamps, and environmental conditions relevant to the inspection
- PC4.** summarise infrastructure health condition and highlight deviations from design specifications
- PC5.** classify and prioritise issues based on severity and potential risk to telecom operations
- PC6.** recommend corrective actions based on defect types and organisational protocols
- PC7.** include comparative references with past inspections or standard benchmarks
- PC8.** use standardised reporting formats approved by the organisation or client
- PC9.** proofread reports for accuracy, consistency, and clarity before submission
- PC10.** customise reports based on client requirements, scope, or inspection type

Generate and integrate visual models

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

- PC11.** convert captured data into 2D maps, orthophotos, or visual overlays
- PC12.** generate 3D models or digital twins of telecom towers using photogrammetry or LiDAR data
- PC13.** stitch images using mapping software to create continuous panoramic views or site overviews
- PC14.** overlay RF layout diagrams or structural blueprints onto drone visuals for better analysis
- PC15.** annotate models with defect locations and corrective action markers
- PC16.** integrate thermal or multispectral data into visual models when applicable

Maintain documentation and communication records

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

- PC17.** maintain inspection records, flight logs, and checklists in both digital and physical formats
- PC18.** log communication with clients, stakeholders, or third-party evaluators

PC19. ensure all documentation meets organisational, regulatory, and audit standards

PC20. archive reports and models in secured repositories for future reference or analysis

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** components and structure of a standard telecom infrastructure inspection report
- KU2.** organisational formats and templates for reporting and documentation
- KU3.** use of visual annotation tools to highlight issues or observations in imagery
- KU4.** data mapping tools and modelling software used for generating 2D and 3D outputs
- KU5.** basics of photogrammetry, LiDAR, and GIS-based modelling techniques
- KU6.** formats and interoperability requirements for sharing reports and models
- KU7.** quality assurance parameters for technical reports
- KU8.** metadata elements, including timestamps, coordinates, and sensor data
- KU9.** confidentiality and compliance norms in the documentation
- KU10.** best practices for version control and data archiving
- KU11.** communication protocols with internal and external stakeholders
- KU12.** inspection-specific terminology and technical nomenclature
- KU13.** risk classification standards used in telecom inspections

Generic Skills (GS)

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

- GS1.** communicate inspection outcomes clearly in written and visual formats.
- GS2.** use digital tools to compile, format, and edit reports or models.
- GS3.** organise data and content systematically for quick access and clarity.
- GS4.** apply critical thinking to classify and prioritise defects or anomalies.
- GS5.** manage time efficiently to complete and submit reports within timelines.
- GS6.** collaborate with engineers, clients, and vendors during report generation.
- GS7.** maintain attention to detail while editing, annotating, or validating content.
- GS8.** adapt report content and visual outputs based on client or project needs.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Compile and structure inspection reports</i>	18	26	-	5
PC1. compile inspection findings with corresponding visuals and metadata into a structured reporting format	1	4	-	-
PC2. incorporate annotated images or video snapshots to highlight identified defects or anomalies	2	3	-	-
PC3. include geo-coordinates, timestamps, and environmental conditions relevant to the inspection	1	3	-	1
PC4. summarise infrastructure health condition and highlight deviations from design specifications	2	2	-	1
PC5. classify and prioritise issues based on severity and potential risk to telecom operations	2	3	-	-
PC6. recommend corrective actions based on defect types and organisational protocols	2	2	-	1
PC7. include comparative references with past inspections or standard benchmarks	2	2	-	1
PC8. use standardised reporting formats approved by the organisation or client	2	1	-	-
PC9. proofread reports for accuracy, consistency, and clarity before submission	2	3	-	-
PC10. customise reports based on client requirements, scope, or inspection type	2	3	-	1
<i>Generate and integrate visual models</i>	8	22	-	4
PC11. convert captured data into 2D maps, orthophotos, or visual overlays	1	4	-	1
PC12. generate 3D models or digital twins of telecom towers using photogrammetry or LiDAR data	1	4	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. stitch images using mapping software to create continuous panoramic views or site overviews	1	4	-	1
PC14. overlay RF layout diagrams or structural blueprints onto drone visuals for better analysis	2	4	-	1
PC15. annotate models with defect locations and corrective action markers	1	3	-	1
PC16. integrate thermal or multispectral data into visual models when applicable	2	3	-	-
<i>Maintain documentation and communication records</i>	4	12	-	1
PC17. maintain inspection records, flight logs, and checklists in both digital and physical formats	1	3	-	-
PC18. log communication with clients, stakeholders, or third-party evaluators	1	3	-	-
PC19. ensure all documentation meets organisational, regulatory, and audit standards	1	3	-	1
PC20. archive reports and models in secured repositories for future reference or analysis	1	3	-	-
NOS Total	30	60	-	10

National Occupational Standards (NOS) Parameters

NOS Code	TEL/N6802
NOS Name	Generate Inspection Reports and Visual Models
Sector	Telecom
Sub-Sector	
Occupation	Network Operation & Maintenance
NSQF Level	5.5
Credits	4
Version	1.0
Next Review Date	NA

TEL/N6292: Implement safety and regulatory procedures in drone operations

Description

This OS describes the skills and knowledge required to implement health, safety, and regulatory procedures related to drone operations.

Scope

The scope covers the following :

- Identify and monitor safety risks in drone operations
- Ensure regulatory and organisational compliance

Elements and Performance Criteria

Identify and monitor safety risks in drone operations

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

- PC1.** identify and assess potential safety risks associated with drone related activities, including take-off, landing, and payload handling.
- PC2.** monitor weather conditions and environmental hazards that could impact drone operations.
- PC3.** ensure drones are deployed in accordance with safety protocols and organisational procedures.
- PC4.** verify that drone operators and support staff follow personal protective and operational safety measures.
- PC5.** maintain updated records of safety checks, incidents, and corrective actions taken.
- PC6.** report safety breaches, near misses, and unsafe practices to designated authorities within the organisation.
- PC7.** review incident reports to recommend preventive measures and reduce operational risks.
- PC8.** coordinate with relevant departments to ensure emergency response plans are in place and communicated.

Ensure regulatory and organisational compliance

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

- PC9.** record and report safety breaches, near misses, and accidents using organisational protocols.
- PC10.** ensure adherence to national and local airspace regulations and drone operation guidelines.
- PC11.** verify that drone equipment meets licensing, certification, and airworthiness requirements.
- PC12.** monitor compliance with data privacy and security standards during drone operations.
- PC13.** maintain accurate records of drone usage, flight paths, and logs for regulatory audit readiness.
- PC14.** update internal teams on changes in drone regulations or organisational safety policies.
- PC15.** facilitate regular compliance audits and inspections of the drones.
- PC16.** promote a safety and compliance culture through regular briefings and training support.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** applicable national and regional aviation regulations relevant to drone operations.
- KU2.** organisational policies on health, safety, and environmental (HSE) compliance.
- KU3.** risk assessment methodologies in the context of drone operations.
- KU4.** common safety hazards in drone handling, flight, and operations.
- KU5.** emergency procedures for various operational incidents such as loss of control or crash.
- KU6.** importance of weather data and terrain information in flight safety.
- KU7.** documentation and reporting requirements for compliance tracking.
- KU8.** data protection and privacy considerations while handling sensitive information.
- KU9.** protocols for internal and external safety audits.
- KU10.** use of digital tools to log, monitor, and analyse safety and compliance data.
- KU11.** role of communication and training in maintaining operational safety.

Generic Skills (GS)

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

- GS1.** communicate safety and compliance guidelines effectively to team members.
- GS2.** prioritise tasks during emergencies to ensure quick and safe response.
- GS3.** collaborate with internal teams and regulatory authorities to resolve compliance gaps.
- GS4.** maintain accuracy and attention to detail in documentation and recordkeeping.
- GS5.** apply critical thinking to identify risks and recommend proactive safety measures.
- GS6.** foster a positive and responsible safety culture in the workplace.
- GS7.** stay updated on evolving safety standards and regulations.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Identify and monitor safety risks in drone operations</i>	15	30	-	6
PC1. identify and assess potential safety risks associated with drone related activities, including take-off, landing, and payload handling.	2	4	-	1
PC2. monitor weather conditions and environmental hazards that could impact drone operations.	2	4	-	-
PC3. ensure drones are deployed in accordance with safety protocols and organisational procedures.	2	2	-	1
PC4. verify that drone operators and support staff follow personal protective and operational safety measures.	2	4	-	1
PC5. maintain updated records of safety checks, incidents, and corrective actions taken.	2	4	-	-
PC6. report safety breaches, near misses, and unsafe practices to designated authorities within the organisation.	1	4	-	1
PC7. review incident reports to recommend preventive measures and reduce operational risks.	2	4	-	1
PC8. coordinate with relevant departments to ensure emergency response plans are in place and communicated.	2	4	-	1
<i>Ensure regulatory and organisational compliance</i>	15	30	-	4
PC9. record and report safety breaches, near misses, and accidents using organisational protocols.	2	4	-	-
PC10. ensure adherence to national and local airspace regulations and drone operation guidelines.	2	4	-	1
PC11. verify that drone equipment meets licensing, certification, and airworthiness requirements.	2	3	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. monitor compliance with data privacy and security standards during drone operations.	2	4	-	1
PC13. maintain accurate records of drone usage, flight paths, and logs for regulatory audit readiness.	2	4	-	-
PC14. update internal teams on changes in drone regulations or organisational safety policies.	1	3	-	1
PC15. facilitate regular compliance audits and inspections of the drones.	2	4	-	1
PC16. promote a safety and compliance culture through regular briefings and training support.	2	4	-	-
NOS Total	30	60	-	10

National Occupational Standards (NOS) Parameters

NOS Code	TEL/N6292
NOS Name	Implement safety and regulatory procedures in drone operations
Sector	Telecom
Sub-Sector	
Occupation	Network Operation and Maintenance
NSQF Level	5
Credits	2
Version	1.0
Next Review Date	NA

DGT/VSQ/N0102: Employability Skills (60 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
- Career Development & Goal Setting
- 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.** identify employability skills required for jobs in various industries
- PC2.** identify and explore learning and employability portals

Constitutional values - Citizenship

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

- PC3.** recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.
- PC4.** follow environmentally sustainable practices

Becoming a Professional in the 21st Century

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

- PC5.** recognize the significance of 21st Century Skills for employment
- PC6.** practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life

Basic English Skills

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

- PC7.** use basic English for everyday conversation in different contexts, in person and over the telephone
- PC8.** read and understand routine information, notes, instructions, mails, letters etc. written in English
- PC9.** write short messages, notes, letters, e-mails etc. in English

Career Development & Goal Setting

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

- PC10.** understand the difference between job and career
- PC11.** prepare a career development plan with short- and long-term goals, based on aptitude

Communication Skills

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

- PC12.** follow verbal and non-verbal communication etiquette and active listening techniques in various settings
- PC13.** work collaboratively with others in a team

Diversity & Inclusion

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

- PC14.** communicate and behave appropriately with all genders and PwD
- PC15.** escalate any issues related to sexual harassment at workplace according to POSH Act

Financial and Legal Literacy

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

- PC16.** select financial institutions, products and services as per requirement
- PC17.** carry out offline and online financial transactions, safely and securely
- PC18.** identify common components of salary and compute income, expenses, taxes, investments etc
- PC19.** identify relevant rights and laws and use legal aids to fight against legal exploitation

Essential Digital Skills

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

- PC20.** operate digital devices and carry out basic internet operations securely and safely
- PC21.** use e- mail and social media platforms and virtual collaboration tools to work effectively
- PC22.** use basic features of word processor, spreadsheets, and presentations

Entrepreneurship

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

- PC23.** identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research
- PC24.** develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion
- PC25.** identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity

Customer Service

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

- PC26.** identify different types of customers
- PC27.** identify and respond to customer requests and needs in a professional manner.
- PC28.** follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

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

- PC29.** create a professional Curriculum vitae (Résumé)
- PC30.** search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively
- PC31.** apply to identified job openings using offline /online methods as per requirement
- PC32.** answer questions politely, with clarity and confidence, during recruitment and selection
- PC33.** identify apprenticeship opportunities and register for it as per guidelines and requirements

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** need for employability skills and different learning and employability related portals
- 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 English language for effective verbal (face to face and telephonic) and written communication in formal and informal set up
- KU6.** importance of career development and setting long- and short-term goals
- KU7.** about effective communication
- KU8.** POSH Act
- KU9.** Gender sensitivity and inclusivity
- KU10.** different types of financial institutes, products, and services
- KU11.** how to compute income and expenditure
- KU12.** importance of maintaining safety and security in offline and online financial transactions
- KU13.** different legal rights and laws
- KU14.** different types of digital devices and the procedure to operate them safely and securely
- KU15.** how to create and operate an e- mail account and use applications such as word processors, spreadsheets etc.
- KU16.** how to identify business opportunities
- KU17.** types and needs of customers
- KU18.** how to apply for a job and prepare for an interview
- KU19.** apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

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

- GS1.** read and write different types of documents/instructions/correspondence
- GS2.** communicate effectively using appropriate language in formal and informal settings
- GS3.** behave politely and appropriately with all
- GS4.** how to work in a virtual mode

- GS5.** perform calculations efficiently
- GS6.** solve problems effectively
- GS7.** pay attention to details
- GS8.** manage time efficiently
- GS9.** maintain hygiene and sanitization to avoid infection

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. identify employability skills required for jobs in various industries	-	-	-	-
PC2. identify and explore learning and employability portals	-	-	-	-
<i>Constitutional values – Citizenship</i>	1	1	-	-
PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC4. follow environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	2	4	-	-
PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-
PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC9. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	2	-	-
PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	2	3	-	-
PC16. select financial institutions, products and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	3	4	-	-
PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22. use basic features of word processor, spreadsheets, and presentations	-	-	-	-
<i>Entrepreneurship</i>	2	3	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	1	2	-	-
PC26. identify different types of customers	-	-	-	-
PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-
PC28. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC31. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
NOS Total	20	30	-	-

National Occupational Standards (NOS) Parameters

NOS Code	DGT/VSQ/N0102
NOS Name	Employability Skills (60 Hours)
Sector	Cross Sectoral
Sub-Sector	Professional Skills
Occupation	Employability
NSQF Level	4
Credits	2
Version	1.0
Last Reviewed Date	07/10/2025
Next Review Date	07/10/2028
NSQC Clearance Date	07/10/2025

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Element/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 Element/PC.
2. The assessment for the theory part will be based on a 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 the theory part for each candidate at each examination/training center (as per the assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practicals 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.

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
TEL/N6803.Plan Drone-Based Inspection of Telecom Infrastructure	30	60	0	10	100	18
TEL/N6299.Conduct Aerial Inspection Using Drones	30	60	-	10	100	18
TEL/N6801.Collect and Analyse Inspection Data	30	60	-	10	100	18
TEL/N6802.Generate Inspection Reports and Visual Models	30	60	-	10	100	18
TEL/N6292.Implement safety and regulatory procedures in drone operations	30	60	0	10	100	18
DGT/VSQ/N0102.Employability Skills (60 Hours)	20	30	-	-	50	10
Total	170	330	0	50	550	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.