

Qualification Pack



Telecom Tower Site Maintenance Technician

QP Code: TEL/Q4100

Version: 5.0

NSQF Level: 4

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TEL/Q4100: Telecom Tower Site Maintenance Technician

Brief Job Description

A Telecom Tower Site Maintenance Technician is responsible for ensuring the continuous operation of the telecom tower site by performing Level-1 fault repairs, conducting corrective and preventive maintenance, and reporting issues to the supervisor. Additionally, the individual oversees energy and estate management at Level-1 and verify site assets.

Personal Attributes

This individual should be proactive, self-disciplined individual with good communication, analytical, and problem-solving skills. The person should be a team player, capable of working under high-pressure situations, including odd hours, and willing to travel interstate when required.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [TEL/N4138: Maintain tower site and report periodically](#)
2. [TEL/N4139: Manage site operation safely and hygienically](#)
3. [TEL/N9109: Follow sustainable practices in telecom infrastructure management](#)
4. [DGT/VSQ/N0101: Employability Skills \(30 Hours\)](#)

Qualification Pack (QP) Parameters

Sector	Telecom
Sub-Sector	Passive Infrastructure
Occupation	Operations and Maintenance - Passive Infrastructure
Country	India
NSQF Level	4
Credits	17
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7422.3001

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Minimum Educational Qualification & Experience	12th grade Pass OR Completed 2nd year of the 3-year diploma after 10 (in Electronics and Communication Engineering/ Electrical Engineering/ Telecommunication Engineering) OR 10th grade pass with 3 Years of experience in the operations and maintenance of passive infrastructure OR Previous relevant Qualification of NSQF Level (3) with 3 Years of experience in the operations and maintenance of passive infrastructure OR Previous relevant Qualification of NSQF Level (3.5) with 1.5 years of experience in the operations and maintenance of passive infrastructure
Minimum Level of Education for Training in School	10th Class
Pre-Requisite License or Training	NA
Minimum Job Entry Age	17 Years
Last Reviewed On	NA
Next Review Date	30/04/2028
NSQC Approval Date	08/05/2025
Version	5.0
Reference code on NQR	QG-04-TL-04075-2025-V2-TSSC
NQR Version	2

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TEL/N4138: Maintain tower site and report periodically

Description

This unit covers preventive and corrective maintenance of telecom tower sites, including energy management, advanced fault diagnosis, and remote monitoring to ensure site uptime and efficiency

Scope

The scope covers the following :

- Perform preventive maintenance at the tower site
- Perform corrective maintenance of equipment
- Monitor site power and energy efficiency
- Prepare and submit reports

Elements and Performance Criteria

Perform preventive maintenance at the tower site

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

- PC1.** inspect, clean, and maintain solar panels, wind turbines, and hybrid power systems
- PC2.** test and service battery banks, including lead-acid, lithium-ion, and solid-state batteries
- PC3.** monitor and calibrate power interface units (PIU), SMPS, diesel generators (DG), and air conditioning systems
- PC4.** perform load balancing and ensure efficient energy distribution
- PC5.** inspect and rectify faults in grounding systems to maintain electrical safety
- PC6.** conduct preventive maintenance on telecom enclosures, cable connections, and environmental control units
- PC7.** use remote monitoring tools to track site health and predict failures

Perform corrective maintenance of equipment

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

- PC8.** identify and troubleshoot site faults, including power failures and hardware malfunctions
- PC9.** analyze site downtime using data analytics and remote monitoring systems
- PC10.** repair or replace faulty power components, including batteries, rectifiers, and fuse
- PC11.** restore connectivity by addressing transmission failures and alarm-triggered events
- PC12.** perform emergency repairs on alternative power sources to maintain site uptime

Monitor site power and energy efficiency

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

- PC13.** track and analyze energy consumption to optimize power usage
- PC14.** identify inefficiencies in battery charging cycles and rectify power losses
- PC15.** ensure regulatory compliance in energy management and site operation
- PC16.** maintain an inventory of spare parts required for power and maintenance activities

Prepare and submit reports

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

PC17. document preventive and corrective maintenance tasks in telecom reporting systems

PC18. maintain records of site power logs, energy audits, and operational performance

PC19. report issues such as fuel consumption, security breaches, or material theft to the supervisor

PC20. use digital reporting tools to submit real-time site updates and alarm escalations

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. the components of telecom power systems, including solar, wind, and hybrid energy sources

KU2. battery technologies such as lead-acid, lithium-ion, and solid-state batteries, including their maintenance requirements

KU3. principles of predictive maintenance and fault analytics for early issue detection in power and cooling systems

KU4. use of remote monitoring and management systems for energy tracking, alarm detection, and asset health monitoring

KU5. fault diagnosis using data analytics

KU6. standard safety procedures for electrical and mechanical maintenance

KU7. telecom site infrastructure, including shelters, tower structures, and power distribution

KU8. documentation standards for telecom site maintenance, including digital reporting

Generic Skills (GS)

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

GS1. read technical manuals and service guidelines for power systems

GS2. document site maintenance activities accurately using digital reporting tools

GS3. communicate site faults and maintenance requirements to relevant teams

GS4. prioritize and schedule maintenance tasks based on site needs

GS5. analyze energy consumption reports to identify efficiency improvements

GS6. apply problem-solving skills to troubleshoot faults effectively

GS7. use power management software for remote diagnostics and alarm tracking

GS8. ensure compliance with telecom safety regulations while performing tasks

GS9. coordinate with vendors for timely repairs and maintenance activities

GS10. adapt to new telecom infrastructure technologies for improved site management

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Perform preventive maintenance at the tower site</i>	12	20	-	7
PC1. inspect, clean, and maintain solar panels, wind turbines, and hybrid power systems	2	3	-	1
PC2. test and service battery banks, including lead-acid, lithium-ion, and solid-state batteries	2	3	-	1
PC3. monitor and calibrate power interface units (PIU), SMPS, diesel generators (DG), and air conditioning systems	2	3	-	1
PC4. perform load balancing and ensure efficient energy distribution	2	3	-	1
PC5. inspect and rectify faults in grounding systems to maintain electrical safety	2	3	-	1
PC6. conduct preventive maintenance on telecom enclosures, cable connections, and environmental control units	1	3	-	1
PC7. use remote monitoring tools to track site health and predict failures	1	2	-	1
<i>Perform corrective maintenance of equipment</i>	8	14	-	5
PC8. identify and troubleshoot site faults, including power failures and hardware malfunctions	2	3	-	1
PC9. analyze site downtime using data analytics and remote monitoring systems	2	3	-	1
PC10. repair or replace faulty power components, including batteries, rectifiers, and fuse	1	3	-	1
PC11. restore connectivity by addressing transmission failures and alarm-triggered events	1	3	-	1
PC12. perform emergency repairs on alternative power sources to maintain site uptime	2	2	-	1
<i>Monitor site power and energy efficiency</i>	5	8	-	4

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. track and analyze energy consumption to optimize power usage	1	2	-	1
PC14. identify inefficiencies in battery charging cycles and rectify power losses	2	2	-	1
PC15. ensure regulatory compliance in energy management and site operation	1	2	-	1
PC16. maintain an inventory of spare parts required for power and maintenance activities	1	2	-	1
<i>Prepare and submit reports</i>	5	8	-	4
PC17. document preventive and corrective maintenance tasks in telecom reporting systems	1	2	-	1
PC18. maintain records of site power logs, energy audits, and operational performance	2	2	-	1
PC19. report issues such as fuel consumption, security breaches, or material theft to the supervisor	1	2	-	1
PC20. use digital reporting tools to submit real-time site updates and alarm escalations	1	2	-	1
NOS Total	30	50	-	20

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National Occupational Standards (NOS) Parameters

NOS Code	TEL/N4138
NOS Name	Maintain tower site and report periodically
Sector	Telecom
Sub-Sector	Passive Infrastructure
Occupation	Operations and Maintenance - Passive Infrastructure
NSQF Level	4
Credits	8
Version	3.0
Last Reviewed Date	08/05/2025
Next Review Date	30/04/2028
NSQC Clearance Date	08/05/2025

Qualification Pack

TEL/N4139: Manage site operation safely and hygienically

Description

This unit focuses on managing telecom site operations, ensuring infrastructure safety, maintaining hygiene standards, and implementing remote monitoring tools to optimize site performance

Scope

The scope covers the following :

- Ensure regular site upkeep
- Maintain safety and hygiene of the site
- Monitor alarms and infrastructure sensors
- Oversee site administration

Elements and Performance Criteria

Ensure regular site upkeep

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

- PC1.** conduct routine checks on power equipment, including solar panels and battery banks
- PC2.** ensure proper functioning of civil and mechanical infrastructure at the site
- PC3.** identify and clear unwanted materials to maintain a clutter-free site
- PC4.** maintain accurate logs of equipment maintenance, power usage, and vendor activities

Maintain safety and hygiene of the site

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

- PC5.** implement national and international safety standards for telecom sites (e.g., IEC, OSHA, BIS)
- PC6.** check fire safety equipment, grounding systems, and electrical installations regularly
- PC7.** conduct hygiene checks for DG sets, PIU, SMPS, and battery banks
- PC8.** maintain site cleanliness by removing debris and ensuring proper waste segregation

Monitor alarms and infrastructure sensors

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

- PC9.** track site alarms and sensor data using remote monitoring systems
- PC10.** respond to security alerts and unauthorized access incidents in a timely manner
- PC11.** ensure the proper functioning of surveillance cameras and access control systems
- PC12.** analyze alarm trends to detect recurring site issues and take preventive action

Oversee site administration

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

- PC13.** verify electricity bill readings and ensure they align with site energy logs
- PC14.** monitor vendor activities for adherence to maintenance contracts and Service Level Agreements (SLAs)
- PC15.** ensure proper documentation of fuel supply, energy usage, and maintenance schedules
- PC16.** maintain records of safety inspections, repairs, and regulatory compliance

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Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the applicable national and international safety regulations applicable to telecom sites and infrastructure
- KU2.** fire safety measures, fuel storage, electrical hazard management, and site evacuation procedures
- KU3.** best practices in telecom site hygiene
- KU4.** remote monitoring tools for tracking telecom site security and infrastructure, power alarms, and energy efficiency
- KU5.** alarm classification, troubleshooting, and escalation procedures for critical failures
- KU6.** functionality of security systems, including access control and surveillance cameras
- KU7.** telecom hardware integration with energy-efficient solutions, such as hybrid power systems
- KU8.** energy audit methodologies and efficiency improvement strategies
- KU9.** site administration processes, including vendor coordination and compliance checks

Generic Skills (GS)

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

- GS1.** read and interpret telecom safety regulations and compliance guidelines
- GS2.** use digital tools to track site alarms, power logs, and infrastructure performance
- GS3.** communicate safety issues and administrative updates effectively
- GS4.** prioritize maintenance tasks to ensure smooth site operations
- GS5.** analyze alarm trends to identify potential security and operational risks
- GS6.** ensure adherence to safety protocols for hazardous material handling
- GS7.** apply problem-solving skills to resolve security breaches and site failures
- GS8.** coordinate with vendors and stakeholders for regulatory compliance
- GS9.** maintain accurate documentation of site safety and maintenance activities
- GS10.** adapt to updated safety standards and emerging telecom site management technologies

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Ensure regular site upkeep</i>	8	13	-	5
PC1. conduct routine checks on power equipment, including solar panels and battery banks	2	4	-	2
PC2. ensure proper functioning of civil and mechanical infrastructure at the site	2	3	-	1
PC3. identify and clear unwanted materials to maintain a clutter-free site	2	3	-	1
PC4. maintain accurate logs of equipment maintenance, power usage, and vendor activities	2	3	-	1
<i>Maintain safety and hygiene of the site</i>	8	13	-	5
PC5. implement national and international safety standards for telecom sites (e.g., IEC, OSHA, BIS)	2	3	-	1
PC6. check fire safety equipment, grounding systems, and electrical installations regularly	2	4	-	2
PC7. conduct hygiene checks for DG sets, PIU, SMPS, and battery banks	2	3	-	1
PC8. maintain site cleanliness by removing debris and ensuring proper waste segregation	2	3	-	1
<i>Monitor alarms and infrastructure sensors</i>	7	12	-	5
PC9. track site alarms and sensor data using remote monitoring systems	2	3	-	2
PC10. respond to security alerts and unauthorized access incidents in a timely manner	2	3	-	1
PC11. ensure the proper functioning of surveillance cameras and access control systems	2	3	-	1

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. analyze alarm trends to detect recurring site issues and take preventive action	1	3	-	1
<i>Oversee site administration</i>	7	12	-	5
PC13. verify electricity bill readings and ensure they align with site energy logs	2	3	-	1
PC14. monitor vendor activities for adherence to maintenance contracts and Service Level Agreements (SLAs)	2	3	-	2
PC15. ensure proper documentation of fuel supply, energy usage, and maintenance schedules	2	3	-	1
PC16. maintain records of safety inspections, repairs, and regulatory compliance	1	3	-	1
NOS Total	30	50	-	20

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National Occupational Standards (NOS) Parameters

NOS Code	TEL/N4139
NOS Name	Manage site operation safely and hygienically
Sector	Telecom
Sub-Sector	Passive Infrastructure
Occupation	Operations and Maintenance - Passive Infrastructure
NSQF Level	4
Credits	7
Version	3.0
Last Reviewed Date	08/05/2025
Next Review Date	30/04/2028
NSQC Clearance Date	08/05/2025

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TEL/N9109: Follow sustainable practices in telecom infrastructure management

Description

This unit focuses on sustainability practices in telecom infrastructure management, covering e-waste management, green practices, hazardous and non-hazardous waste, and energy efficiency.

Scope

The scope covers the following :

- Manage hazardous and e-waste at telecom sites
- Adopt green energy and resource efficiency practices
- Follow waste reduction strategies
- Ensure compliance with environmental regulations

Elements and Performance Criteria

Manage hazardous and e-waste at telecom sites

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

- PC1.** identify, segregate, and categorize e-waste (batteries, cables, outdated equipment) and hazardous waste (lead-acid batteries, diesel residues, etc.)
- PC2.** dispose of or recycle waste following the applicable e-waste management guidelines
- PC3.** follow safe handling procedures for hazardous materials, including protective gear usage
- PC4.** maintain logs and records of disposed, recycled, or repurposed telecom waste

Adopt green energy and resource efficiency practices

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

- PC5.** optimize power usage through energy-efficient telecom equipment (e.g., LED lighting, smart cooling systems)
- PC6.** assist in adopting solar-powered telecom towers and integration of hybrid energy systems (e.g. solar power and battery backup)
- PC7.** monitor and minimize fuel consumption in Diesel Generators (DG) sets through load balancing and regular maintenance

Follow waste reduction strategies

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

- PC8.** reduce packaging waste by promoting the reuse of telecom materials and accessories
- PC9.** follow rainwater harvesting and wastewater reuse practices in telecom cooling systems
- PC10.** promote structured cabling to reduce cable waste and optimize resource utilization

Ensure compliance with environmental regulations

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

- PC11.** follow Central Pollution Control Board (CPCB) guidelines for telecom site waste disposal
- PC12.** assist in conducting periodic environmental audits to ensure sustainability compliance
- PC13.** guide co-workers on eco-friendly practices and waste management policies at telecom sites

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Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** e-waste management rules (2022) applicable the telecom sector
- KU2.** Central Pollution Control Board (CPCB) hazardous waste disposal regulations
- KU3.** safety standards for battery handling and disposal (lead-acid, lithium-ion)
- KU4.** the importance of structured cabling and cable reuse to minimize telecom waste
- KU5.** the techniques for energy optimization in telecom infrastructure (e.g., smart cooling, LED lighting, hybrid power systems)
- KU6.** the role of solar energy and other renewable sources in reducing telecom carbon footprint
- KU7.** green telecom practices like fuel efficiency in DG sets and power-saving measures
- KU8.** best practices in telecom tower site waste management
- KU9.** the principles of water conservation and sustainable telecom site design
- KU10.** the importance of training telecom employees on environmental awareness and compliance

Generic Skills (GS)

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

- GS1.** explain sustainability practices to team members
- GS2.** identify and address issues in waste management and energy efficiency
- GS3.** maintain logs on waste disposal, recycling, and energy savings
- GS4.** analyze power consumption and propose efficiency improvements
- GS5.** select between disposal, recycling, or repurposing of telecom waste
- GS6.** adhere to the applicable environmental laws and guidelines
- GS7.** work with vendors and waste management partners for sustainable practices
- GS8.** adapt to new green technologies and sustainability policies
- GS9.** ensure prompt and efficient waste disposal and as per applicable schedules

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Manage hazardous and e-waste at telecom sites</i>	8	15	-	5
PC1. identify, segregate, and categorize e-waste (batteries, cables, outdated equipment) and hazardous waste (lead-acid batteries, diesel residues, etc.)	2	4	-	2
PC2. dispose of or recycle waste following the applicable e-waste management guidelines	2	4	-	1
PC3. follow safe handling procedures for hazardous materials, including protective gear usage	2	4	-	1
PC4. maintain logs and records of disposed, recycled, or repurposed telecom waste	2	3	-	1
<i>Adopt green energy and resource efficiency practices</i>	6	15	-	5
PC5. optimize power usage through energy-efficient telecom equipment (e.g., LED lighting, smart cooling systems)	2	5	-	2
PC6. assist in adopting solar-powered telecom towers and integration of hybrid energy systems (e.g. solar power and battery backup)	2	5	-	1
PC7. monitor and minimize fuel consumption in Diesel Generators (DG) sets through load balancing and regular maintenance	2	5	-	2
<i>Follow waste reduction strategies</i>	8	10	-	5
PC8. reduce packaging waste by promoting the reuse of telecom materials and accessories	3	4	-	2
PC9. follow rainwater harvesting and wastewater reuse practices in telecom cooling systems	3	3	-	2
PC10. promote structured cabling to reduce cable waste and optimize resource utilization	2	3	-	1
<i>Ensure compliance with environmental regulations</i>	8	10	-	5

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. follow Central Pollution Control Board (CPCB) guidelines for telecom site waste disposal	3	4	-	2
PC12. assist in conducting periodic environmental audits to ensure sustainability compliance	3	3	-	2
PC13. guide co-workers on eco-friendly practices and waste management policies at telecom sites	2	3	-	1
NOS Total	30	50	-	20

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National Occupational Standards (NOS) Parameters

NOS Code	TEL/N9109
NOS Name	Follow sustainable practices in telecom infrastructure management
Sector	Telecom
Sub-Sector	
Occupation	Generic
NSQF Level	4
Credits	1
Version	1.0
Last Reviewed Date	08/05/2025
Next Review Date	30/04/2028
NSQC Clearance Date	08/05/2025

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

Description

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

Scope

The scope covers the following :

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

Elements and Performance Criteria

Introduction to Employability Skills

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

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

Constitutional values – Citizenship

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

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

Becoming a Professional in the 21st Century

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

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

Basic English Skills

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

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

Communication Skills

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

PC5. follow good manners while communicating with others

PC6. work with others in a team

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Diversity & Inclusion

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

PC7. communicate and behave appropriately with all genders and PwD

PC8. report any issues related to sexual harassment

Financial and Legal Literacy

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

PC9. use various financial products and services safely and securely

PC10. calculate income, expenses, savings etc.

PC11. approach the concerned authorities for any exploitation as per legal rights and laws

Essential Digital Skills

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

PC12. operate digital devices and use its features and applications securely and safely

PC13. use internet and social media platforms securely and safely

Entrepreneurship

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

PC14. identify and assess opportunities for potential business

PC15. identify sources for arranging money and associated financial and legal challenges

Customer Service

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

PC16. identify different types of customers

PC17. identify customer needs and address them appropriately

PC18. follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

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

PC19. create a basic biodata

PC20. search for suitable jobs and apply

PC21. identify and register apprenticeship opportunities as per requirement

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. need for employability skills

KU2. various constitutional and personal values

KU3. different environmentally sustainable practices and their importance

KU4. Twenty first (21st) century skills and their importance

KU5. how to use basic spoken English language

KU6. Do and dont of effective communication

KU7. inclusivity and its importance

KU8. different types of disabilities and appropriate communication and behaviour towards PwD

KU9. different types of financial products and services

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

Generic Skills (GS)

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

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

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Assessment Criteria

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

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	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	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	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	-	-

Qualification Pack

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	30/04/2025
Next Review Date	30/04/2028
NSQC Clearance Date	30/04/2025

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 proportion of marks for Theory and Skills Practical for each Element/ PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
6. To pass the Qualification Pack assessment, every trainee should score the Recommended Pass % aggregate for the QP.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Qualification Pack

Minimum Aggregate Passing % at QP Level : 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/N4138.Maintain tower site and report periodically	30	50	-	20	100	40
TEL/N4139.Manage site operation safely and hygienically	30	50	-	20	100	30
TEL/N9109.Follow sustainable practices in telecom infrastructure management	30	50	0	20	100	20
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	10
Total	110	180	0	60	350	100

Qualification Pack

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
NCVET	National Council for Vocational Education and Training
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards
NCO	National Classification of Occupations
ES	Employability Skills
TSSC	Telecom Sector Skill Council
TRAI	Telecom Regulatory Authority of India
PIU	Power Interface Units
DG	Diesel Generators
SMPs	Switched-Mode Power Supply
SLAs	Service Level Agreements
CPCB	Central Pollution Control Board

Qualification Pack

Glossary

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

Qualification Pack

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.