









# **Broadband Technician**

QP Code: TEL/Q0102

Version: 4.0

NSQF Level: 4

Telecom Sector Skill Council || 3rd Floor, Plot No 126, Sector - 44 Gurgaon - 122003







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# **TEL/Q0102: Broadband Technician**

## **Brief Job Description**

The individual is responsible for installing, configuring and testing of CPE (modem, routers and switches) for broadband access. The individual also establishes connectivity between CPE and end-user device (CPU, Laptop, tablets, Smart/IP TV etc.) at customer premises and carries out basic trouble-shooting for identifying, localizing and rectifying cable, connectivity and equipment fault in coordination with NOC.

#### **Personal Attributes**

An individual on this job must have good communication and interpersonal skills in addition to being a team player, as the job requires coordination with technicians and interaction with customers. The individual must have a technical bend of mind and the ability to work under pressure. The individual should be proficient in regional language, have strong customer service focus, pleasant personality and should be able to apply practical judgement to successfully perform the assigned responsibilities.

#### **Applicable National Occupational Standards (NOS)**

#### **Compulsory NOS:**

- 1. TEL/N0111: Lay cable/system wiring and install equipment at customer premises
- 2. TEL/N0112: Configure customer premises equipment and establish Broadband connectivity
- 3. TEL/N0113: Troubleshoot and Rectify Faults
- 4. TEL/N9101: Organize Work and Resources as per Health and Safety Standards
- 5. TEL/N9102: Interact Effectively with Team Members and Customers
- 6. DGT/VSQ/N0102: Employability Skills (60 Hours)

#### **Qualification Pack (QP) Parameters**

Sector	Telecom
Sub-Sector	Passive Infrastructure
Occupation	Customer Service - Passive Infrastructure
Country	India
NSQF Level	4







Credits	17
Aligned to NCO/ISCO/ISIC Code	NCO-2015/3114.0804
Minimum Educational Qualification & Experience	11th grade pass OR Completed 1st year of 3-year diploma (after 10th) and pursuing regular diploma OR 10th grade pass plus 1-year NTC/ NAC OR 8th grade pass plus 2-year NTC plus 1 Year NAC OR 8th pass plus 1-year NTC plus 1-Year NAC plus CITS OR 10th grade pass and pursuing continuous schooling OR 10th grade pass with 2 Years of experience
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	30/12/2024
NSQC Approval Date	30/12/2021
Version	4.0
Reference code on NQR	2022/TEL/TSSC/07002
NQR Version	2







# TEL/N0111: Lay cable/system wiring and install equipment at customer premises

# **Description**

This OS unit describes the knowledge, understanding and skills required for an individual to lay down the cable/system wiring and install equipment at customer premises.

# Scope

The scope covers the following:

- Prepare for wiring and equipment installation
- Undertake wiring and install system hardware
- Clean up worksite and complete documentation

#### **Elements and Performance Criteria**

#### Prepare for wiring and equipment installation

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

- **PC1.** collect work requirements, tools, equipment and materials required for installation
- **PC2.** visit site/customer premises for installation
- **PC3.** analyse installation environment and customer requirements to select the correct type of cables and connectors
- **PC4.** inspect indoor and outdoor cable route to ensure that the route is free of electrical hazards
- **PC5.** verify that the cable running length is within the permissible limit to ensure continuity and designed throughput
- **PC6.** verify that the equipment installation location is near power point and has proper signal coverage

#### Undertake wiring and install system hardware

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

- **PC7.** install structured wiring (interior and exterior) from PoP to customer premises
- **PC8.** perform cable splicing and crimping wherever required
- **PC9.** perform neat wiring and clipping within customer premises
- **PC10.** use appropriate connectors and ensure that the cables are terminated properly
- **PC11.** perform fault clearance
- **PC12.** test the cable and joints for transmission loss and strength, re-terminate if loss exceeds prescribed limits.
- **PC13.** install equipment such as modem, router and/or switch
- **PC14.** demonstrate and explain the use of equipment to customers

#### Install/replace UPS and check domestic power supply

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

**PC15.** perform checks for voltage, current and earthing







- PC16. perform checks for battery in case of a defective UPS
- **PC17.** install/replace UPS as per manufacturer's instructions
- PC18. route the power supply through the UPS
- PC19. calculate equipment load and compare it with UPS rating

## Clean up work site and complete documentation

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

- **PC20.** dispose of the installation waste properly and restore work site
- **PC21.** record the details of installation, test results and update plans
- **PC22.** complete all installation documents and get customer signoff

# **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- **KU1.** process of obtaining cables and equipment from company
- KU2. different sizes and colors of wires
- KU3. different types of cables (OFC, UTP, STP, Twisted Pair etc.) and connectors (RJ-45, RJ-11 etc.)
- **KU4.** structured cabling norms (pertaining to laying the cables)
- **KU5.** process of crimping, splicing of cables of various sizes and types
- **KU6.** process of cable laying and connectorisation
- **KU7.** process of accurately measuring distances using tapes and other measuring devices
- **KU8.** selection of suitable installation location adhering to cabling norms and signal
- **KU9.** usage of diagnostic equipment
- **KU10.** usage of hand and power tools
- **KU11.** escalation matrix for reporting identified incidents, troubles and/ or emergencies e.g. system failures, fire and power failures
- **KU12.** functioning of customer premise equipment(modem, routers, switches)
- **KU13.** basic computer skills
- **KU14.** risk and impact of not following defined procedures/work instructions issued as per SHE & OSH guidelines
- **KU15.** records to be maintained and implications of non-maintenance of the same
- **KU16.** payment options and procedures

### **Generic Skills (GS)**

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

- **GS1.** read and understand documents and other materials
- **GS2.** interact respectfully with end users/customers
- **GS3.** liaise with customers/vendors
- **GS4.** communicate in the local language (preferable)
- GS5. work in coordination with team







**GS6.** work systematically with attention to detail and adherence to all safety requirements

**GS7.** maintain proper records as per given format







# **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Prepare for wiring and equipment installation	12	14	-	2
<b>PC1.</b> collect work requirements, tools, equipment and materials required for installation	2	-	-	-
PC2. visit site/customer premises for installation	1	-	-	-
<b>PC3.</b> analyse installation environment and customer requirements to select the correct type of cables and connectors	3	4	-	1
<b>PC4.</b> inspect indoor and outdoor cable route to ensure that the route is free of electrical hazards	2	3	-	1
<b>PC5.</b> verify that the cable running length is within the permissible limit to ensure continuity and designed throughput	2	3	-	-
<b>PC6.</b> verify that the equipment installation location is near power point and has proper signal coverage	2	4	-	-
Undertake wiring and install system hardware	13	21	-	5
<b>PC7.</b> install structured wiring (interior and exterior) from PoP to customer premises	2	3	-	1
PC8. perform cable splicing and crimping wherever required	1	1	-	-
<b>PC9.</b> perform neat wiring and clipping within customer premises	1	2	-	1
<b>PC10.</b> use appropriate connectors and ensure that the cables are terminated properly	2	3	-	1
PC11. perform fault clearance	2	3	-	-
<b>PC12.</b> test the cable and joints for transmission loss and strength, re-terminate if loss exceeds prescribed limits.	2	4	-	1







Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC13.</b> install equipment such as modem, router and/or switch	2	4	-	1
<b>PC14.</b> demonstrate and explain the use of equipment to customers	1	1	-	-
Install/replace UPS and check domestic power supply	9	9	-	3
<b>PC15.</b> perform checks for voltage, current and earthing	1	1	-	-
<b>PC16.</b> perform checks for battery in case of a defective UPS	2	2	-	1
<b>PC17.</b> install/replace UPS as per manufacturer's instructions	2	2	-	1
PC18. route the power supply through the UPS	2	2	-	1
<b>PC19.</b> calculate equipment load and compare it with UPS rating	2	2	-	-
Clean up work site and complete documentation	6	6	-	-
<b>PC20.</b> dispose of the installation waste properly and restore work site	2	2	-	-
<b>PC21.</b> record the details of installation, test results and update plans	2	2	-	-
<b>PC22.</b> complete all installation documents and get customer signoff	2	2	-	-
NOS Total	40	50	-	10







# **National Occupational Standards (NOS) Parameters**

NOS Code	TEL/N0111
NOS Name	Lay cable/system wiring and install equipment at customer premises
Sector	Telecom
Sub-Sector	Passive Infrastructure
Occupation	Customer Service - Passive Infrastructure
NSQF Level	4
Credits	4
Version	3.0
Last Reviewed Date	NA
Next Review Date	30/12/2024
NSQC Clearance Date	30/12/2021







# TEL/N0112: Configure customer premises equipment and establish Broadband connectivity

# **Description**

This OS unit describes the knowledge, understanding and skills required for an individual to configure CPE, connect it with service provider gateway and end user device and then record configuration settings and testing steps for the customer.

#### Scope

The scope covers the following:

- Configure CPE
- Establish broadband connectivity of CPE with service provider gateway and end user device
- Record configuration setting and testing steps for customer

#### **Elements and Performance Criteria**

#### Configure CPE

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

- **PC1.** connect up laptop/PC, smart/ip TV and other customer device to the CPE and establish connectivity
- PC2. access Customer Premise Equipment (CPE) settings using default login credentials
- **PC3.** configure CPE as per the base setting (ip, gateway, mask etc.)

Establish broadband connectivity of CPE with service provider gateway and end user device

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

- **PC4.** verify that all cables and connectors are plugged in properly
- **PC5.** ping the service provider gateway
- **PC6.** analyse test results for connectivity and throughput parameters
- PC7. configure end user device to establish LAN /WiFi connectivity with CPE
- **PC8.** ping CPE from end user device and analyse response

Record configuration setting and testing steps for customer

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

- **PC9.** record CPE configuration settings
- **PC10.** record end user device configuration settings
- PC11. record pinging procedure and expected result parameters
- **PC12.** perform speed test and record the data throughputs and show customer that they are as per committed plan
- PC13. brief customer on basic trouble-shooting steps/self help

## **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:







- **KU1.** risk and impact of not following defined procedures/work instructions issued as per SHE & OSH guidelines
- KU2. command line access and command prompts to execute basic commands
- **KU3.** configuration settings of CPE (wired and wireless) and end user device
- **KU4.** sourcing equipment and base configuration details
- **KU5.** basic concepts of network topologies, broadband network elements, gateways, TCP/IP, IP address, subnet masks, Ethernet address, MAC address, IPv4, IPv6
- **KU6.** basic commands like ping & ipconfig and acceptable round-trip time for IP packets
- **KU7.** connectivity options and methods for CPE & end user device
- KU8. customer premise equipment
- **KU9.** features and operating requirements of test equipment
- **KU10.** how to test the speed of connection and to demonstrate same to customer
- KU11. Level1 & 2 diagnostics
- KU12. in-built diagnostics results for remedial action
- **KU13.** escalation matrix for reporting identified incidents, troubles and/ or emergencies e.g. system failures ,fire and power failures

### **Generic Skills (GS)**

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

- **GS1.** interact courteously with customers
- GS2. liaise with customers/vendors
- GS3. work in coordination with team
- **GS4.** communicate in the local language (preferable)
- **GS5.** work systematically with attention to detail and adherence to all safety requirements
- **GS6.** maintain proper records as per given format







# **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Configure CPE	11	12	-	3
<b>PC1.</b> connect up laptop/PC, smart/ip TV and other customer device to the CPE and establish connectivity	3	4	-	1
<b>PC2.</b> access Customer Premise Equipment (CPE) settings using default login credentials	4	4	-	1
<b>PC3.</b> configure CPE as per the base setting (ip, gateway, mask etc.)	4	4	-	1
Establish broadband connectivity of CPE with service provider gateway and end user device	16	20	-	5
<b>PC4.</b> verify that all cables and connectors are plugged in properly	3	4	-	1
PC5. ping the service provider gateway	2	4	-	1
<b>PC6.</b> analyse test results for connectivity and throughput parameters	4	4	-	1
<b>PC7.</b> configure end user device to establish LAN /WiFi connectivity with CPE	4	4	-	1
PC8. ping CPE from end user device and analyse response	3	4	-	1
Record configuration setting and testing steps for customer	13	18	-	2
PC9. record CPE configuration settings	4	4	-	-
<b>PC10.</b> record end user device configuration settings	3	4	-	1
<b>PC11.</b> record pinging procedure and expected result parameters	2	4	-	-
<b>PC12.</b> perform speed test and record the data throughputs and show customer that they are as per committed plan	2	3	-	1
<b>PC13.</b> brief customer on basic trouble-shooting steps/self help	2	3	-	-







Assessment Criteria for Outcomes	Theory	Practical	Project	Viva
	Marks	Marks	Marks	Marks
NOS Total	40	50	-	10







# **National Occupational Standards (NOS) Parameters**

NOS Code	TEL/N0112
NOS Name	Configure customer premises equipment and establish Broadband connectivity
Sector	Telecom
Sub-Sector	Passive Infrastructure
Occupation	Customer Service - Passive Infrastructure
NSQF Level	4
Credits	4
Version	3.0
Last Reviewed Date	NA
Next Review Date	30/12/2024
NSQC Clearance Date	30/12/2021







# **TEL/N0113: Troubleshoot and Rectify Faults**

# **Description**

This OS unit describes the knowledge, understanding and skills required for an individual to troubleshoot and rectify cable, connectors, CPE and broadband service faults and then complete documentation and clean up work site.

## Scope

The scope covers the following:

- Troubleshoot and rectify cable, connectors and CPE faults
- Troubleshoot and repair clients' broadband service
- · Complete documentation and clean up work site

#### **Elements and Performance Criteria**

#### Troubleshoot and rectify cable, connectors and CPE faults

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

- PC1. identify cause of fault, No Service or service degradation
- PC2. test cabling using signal level meters /OTDR
- PC3. repair and replace faulty connectors / damaged cable
- **PC4.** perform re-conectorization/crimping (of cable pairs with connector) or replace cable, if required
- PC5. connect CPE to laptop/CPU/portable device
- **PC6.** access CPE through browser/software application and run diagnostic application
- **PC7.** install CPE access software, if required
- **PC8.** re-configure/reset the CPE to correct settings

# Troubleshoot and repair clients' broadband service

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

- **PC9.** troubleshoot/repair problems between customer equipment and the optical node
- **PC10.** troubleshoot problems for signal loss and interference
- **PC11.** take readings at all splitter points and terminated ends to determine the signal loss and continuity
- PC12. perform network troubleshooting including ping test, trace routes and speed test
- PC13. monitor, repair and record system, drop, and in-house signal leakage

#### Complete documentation and clean up work site

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

- PC14. record steps undertaken for fault localization/isolation
- PC15. record repairs/replacements undertaken during fault rectification
- **PC16.** restore any changes made to the worksite during fault repair to the client's satisfaction







# **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- **KU1.** basic concepts of transmission, broadcasting, switching and operation of telecommunication systems
- KU2. functioning of circuit boards and processors
- **KU3.** types of cables and cable pairs
- **KU4.** types of cable connectors
- KU5. tools and equipment required for trouble-shooting cable and connector faults
- **KU6.** crimping or soldering expertise
- **KU7.** cable lengths required to achieve designed throughput
- **KU8.** basics of EMI/EMC and preventive approach specific to modem
- **KU9.** usage of test equipment
- KU10. commands to reconfigure/rectify fault in CPE
- KU11. correct commands and applications to reconfigure end user device
- KU12. usage of laptop/portable device to connect to CPE and carry out fault diagnostics and repairs
- KU13. how to interpret data on CPE interface accessed through laptop browser
- KU14. how to interpret output of trouble shooting equipment/device
- KU15. signal loss, attenuation and tiling
- **KU16.** risk and impact of not following defined procedures/work instructions
- **KU17.** escalation matrix for reporting identified incidents, troubles and/ or emergencies e.g. system failures, fire and power failures

#### **Generic Skills (GS)**

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

- **GS1.** liaise with customers/vendors
- GS2. work in coordination with team
- GS3. maintain proper records as per given format
- GS4. interact courteously with users/customers
- **GS5.** communicate in the local language (preferable)
- **GS6.** work systematically with attention to detail and adherence to all safety requirements
- **GS7.** maintain proper records as per given format







# **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Troubleshoot and rectify cable, connectors and CPE faults	21	18	-	6
<b>PC1.</b> identify cause of fault, No Service or service degradation	2	2	-	1
PC2. test cabling using signal level meters /OTDR	2	2	-	1
<b>PC3.</b> repair and replace faulty connectors / damaged cable	2	4	-	-
<b>PC4.</b> perform re-conectorization/crimping (of cable pairs with connector) or replace cable, if required	4	2	-	1
PC5. connect CPE to laptop/CPU/portable device	2	2	-	1
<b>PC6.</b> access CPE through browser/software application and run diagnostic application	2	2	-	1
PC7. install CPE access software, if required	4	2	-	-
PC8. re-configure/reset the CPE to correct settings	3	2	-	1
Troubleshoot and repair clients' broadband service	16	22	-	4
<b>PC9.</b> troubleshoot/repair problems between customer equipment and the optical node	4	4	-	1
<b>PC10.</b> troubleshoot problems for signal loss and interference	4	4	-	1
<b>PC11.</b> take readings at all splitter points and terminated ends to determine the signal loss and continuity	2	4	-	-
<b>PC12.</b> perform network troubleshooting including ping test, trace routes and speed test	4	6	-	1
PC13. monitor, repair and record system, drop, and in-house signal leakage	2	4	-	1
Complete documentation and clean up work site	3	10	-	-
PC14. record steps undertaken for fault localization/isolation	1	6	-	-







Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC15.</b> record repairs/replacements undertaken during fault rectification	1	2	-	-
<b>PC16.</b> restore any changes made to the worksite during fault repair to the client's satisfaction	1	2	-	-
NOS Total	40	50	-	10







# **National Occupational Standards (NOS) Parameters**

NOS Code	TEL/N0113
NOS Name	Troubleshoot and Rectify Faults
Sector	Telecom
Sub-Sector	Passive Infrastructure
Occupation	Customer Service - Passive Infrastructure
NSQF Level	4
Credits	4
Version	3.0
Last Reviewed Date	NA
Next Review Date	30/12/2024
NSQC Clearance Date	30/12/2021







# **TEL/N9101: Organize Work and Resources as per Health and Safety Standards**

# **Description**

This OS unit is about planning work and following sustainable as well as healthy practices for safety and optimal use of resources.

### Scope

The scope covers the following:

- Perform work as per quality standards
- Maintain safe, healthy and secure working environment
- Conserve material/energy/electricity
- Use effective waste management/recycling practices

#### **Elements and Performance Criteria**

#### Perform work as per quality standards

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

- **PC1.** keep workspace clean and tidy
- **PC2.** perform individual role and responsibilities as per the job role while taking accountability for the work
- **PC3.** record/document tasks completed as per the requirements within specific timelines
- **PC4.** implement schedules to ensure timely completion of tasks
- **PC5.** identify the cause of a problem related to own work and validate it
- **PC6.** analyse problems accurately and communicate different possible solutions to the problem

#### Maintain safe, healthy and secure working environment

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

- **PC7.** comply with organisation's current health, safety, security policies and procedures
- **PC8.** check for water spills in and around the work space and escalate these to the appropriate authority
- **PC9.** report any identified breaches in health, safety, and security policies and procedures to the designated person
- **PC10.** use safety materials such as goggles, gloves, ear plugs, caps, ESD pins, covers, shoes, etc.
- **PC11.** avoid damage of components due to negligence in ESD procedures or any other loss due to safety negligence
- **PC12.** identify hazards such as illness, accidents, fires or any other natural calamity safely, as per organisation's emergency procedures, within the limits of individual's authority
- **PC13.** participate regularly in fire drills or other safety related workshops organised by the company
- **PC14.** report any hazard outside the individual's authority to the relevant person in line with organisational procedures and warn others who may be affected







- **PC15.** maintain appropriate posture while sitting/standing for long hours
- **PC16.** handle heavy and hazardous materials with care, while maintaining appropriate posture
- **PC17.** sanitize workstation and equipment regularly
- PC18. clean hands with soap, alcohol-based sanitizer regularly
- **PC19.** avoid contact with anyone suffering from communicable diseases and take necessary precautions
- **PC20.** take safety precautions while travelling e.g. maintain 1m distance from others, sanitize hands regularly, wear masks, etc.
- **PC21.** report hygiene and sanitation issues to appropriate authority
- **PC22.** follow recommended personal hygiene and sanitation practices, for example, washing/sanitizing hands, covering face with a bent elbow while coughing/sneezing, using PPE, etc.

#### Conserve material/energy/electricity

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

- PC23. optimize usage of material including water in various tasks/activities/processes
- **PC24.** use resources such as water, electricity and others responsibly
- PC25. carry out routine cleaning of tools, machine and equipment
- PC26. optimize use of electricity/energy in various tasks/activities/processes
- **PC27.** perform periodic checks of the functioning of the equipment/machine and rectify wherever required
- **PC28.** report malfunctioning and lapses in maintenance of equipment
- **PC29.** use electrical equipment and appliances properly

#### Use effective waste management/recycling practices

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

- **PC30.** identify recyclable, non-recyclable and hazardous waste
- **PC31.** deposit recyclable and reusable material at identified location
- **PC32.** dispose non-recyclable and hazardous waste as per recommended processes

## **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- **KU1.** strategies pertinent to their field (such as internet searches, asking peers and managers, enrolling for courses and certifications, etc.) that can be used to pursue an advancement in their skills
- **KU2.** key performance indicators for the new tasks
- **KU3.** feedback processes and formats
- **KU4.** timelines and goals as well as their relevance to work allocated
- **KU5.** importance of quality and timely delivery of the product/service
- **KU6.** escalation matrix and its importance, especially in case of emergencies
- **KU7.** ways of time and cost management
- **KU8.** rules/regulation for maintaining health and safety at workplace







- **KU9.** meaning of hazard, different types of health and safety hazards found in the workplace, risks and threats based on the nature of work
- **KU10.** relevant signage, warnings, labels or descriptions on equipment, etc. while carrying out work activities
- KU11. procedures to report breaches in health, safety and security
- **KU12.** organisation's procedures for different emergency situations and the importance of following the same
- KU13. different methods of cleaning, disinfection, sterilization, and sanitization
- KU14. significance of personal hygiene practice including hand hygiene
- **KU15.** path of disease transmission
- KU16. correct method of donning and doffing of PPE
- **KU17.** ways of managing resources and material efficiently
- **KU18.** common electrical problems and common practices of conserving electricity
- **KU19.** categorization of waste into dry, wet, recyclable, non-recyclable and items of single-use plastics and use of different colours of dustbins
- **KU20.** organisation's procedures for minimizing waste
- KU21. waste management and methods of waste disposal
- KU22. common sources of pollution and ways to minimize it

# **Generic Skills (GS)**

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

- **GS1.** improve and modify work practices
- **GS2.** complete tasks efficiently and accurately within stipulated time
- **GS3.** develop skills and mastery of the technologies prevalent in the industry
- **GS4.** write in at least one language and complete written work with attention to detail
- **GS5.** utilize time and manage workload efficiently
- **GS6.** read and comprehend instructions and documents
- **GS7.** accept feedback in a constructive way
- **GS8.** seek clarifications from superior about the job requirement
- **GS9.** read and comprehend statutory documents relevant to safety and hygiene
- **GS10.** refer all anomalies to the concerned persons
- **GS11.** analyze situations and make appropriate decisions
- **GS12.** decide the most suitable course of action for completing the task within resources







# **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Perform work as per quality standards	4	9	-	2
PC1. keep workspace clean and tidy	-	1	-	-
<b>PC2.</b> perform individual role and responsibilities as per the job role while taking accountability for the work	1	1	-	1
<b>PC3.</b> record/document tasks completed as per the requirements within specific timelines	-	1	-	1
<b>PC4.</b> implement schedules to ensure timely completion of tasks	-	2	-	-
<b>PC5.</b> identify the cause of a problem related to own work and validate it	2	2	-	-
<b>PC6.</b> analyse problems accurately and communicate different possible solutions to the problem	1	2	-	-
Maintain safe, healthy and secure working environment	16	27	-	4
<b>PC7.</b> comply with organisation's current health, safety, security policies and procedures	1	1	-	-
<b>PC8.</b> check for water spills in and around the work space and escalate these to the appropriate authority	1	2	-	1
<b>PC9.</b> report any identified breaches in health, safety, and security policies and procedures to the designated person	1	2	-	1
<b>PC10.</b> use safety materials such as goggles, gloves, ear plugs, caps, ESD pins, covers, shoes, etc.	1	2	-	1
<b>PC11.</b> avoid damage of components due to negligence in ESD procedures or any other loss due to safety negligence	2	3	-	1
<b>PC12.</b> identify hazards such as illness, accidents, fires or any other natural calamity safely, as per organisation's emergency procedures, within the limits of individual's authority	2	1	-	-







Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC13.</b> participate regularly in fire drills or other safety related workshops organised by the company	1	3	-	-
<b>PC14.</b> report any hazard outside the individual's authority to the relevant person in line with organisational procedures and warn others who may be affected	1	3	-	-
<b>PC15.</b> maintain appropriate posture while sitting/standing for long hours	1	1	-	-
<b>PC16.</b> handle heavy and hazardous materials with care, while maintaining appropriate posture	1	1	-	-
PC17. sanitize workstation and equipment regularly	1	2	-	-
<b>PC18.</b> clean hands with soap, alcohol-based sanitizer regularly	-	1	-	-
<b>PC19.</b> avoid contact with anyone suffering from communicable diseases and take necessary precautions	-	1	-	-
<b>PC20.</b> take safety precautions while travelling e.g. maintain 1m distance from others, sanitize hands regularly, wear masks, etc.	1	2	-	-
<b>PC21.</b> report hygiene and sanitation issues to appropriate authority	1	1	-	-
<b>PC22.</b> follow recommended personal hygiene and sanitation practices, for example, washing/sanitizing hands, covering face with a bent elbow while coughing/sneezing, using PPE, etc.	1	1	-	-
Conserve material/energy/electricity	7	16	-	3
<b>PC23.</b> optimize usage of material including water in various tasks/activities/processes	1	2	-	-
<b>PC24.</b> use resources such as water, electricity and others responsibly	1	2	-	1
<b>PC25.</b> carry out routine cleaning of tools, machine and equipment	1	2	-	-







Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC26.</b> optimize use of electricity/energy in various tasks/activities/processes	1	3	-	1
<b>PC27.</b> perform periodic checks of the functioning of the equipment/machine and rectify wherever required	1	3	-	1
<b>PC28.</b> report malfunctioning and lapses in maintenance of equipment	1	2	-	-
<b>PC29.</b> use electrical equipment and appliances properly	1	2	-	-
Use effective waste management/recycling practices	3	8	-	1
<b>PC30.</b> identify recyclable, non-recyclable and hazardous waste	1	2	-	1
<b>PC31.</b> deposit recyclable and reusable material at identified location	1	3	-	-
<b>PC32.</b> dispose non-recyclable and hazardous waste as per recommended processes	1	3	-	-
NOS Total	30	60	-	10







# **National Occupational Standards (NOS) Parameters**

NOS Code	TEL/N9101
NOS Name	Organize Work and Resources as per Health and Safety Standards
Sector	Telecom
Sub-Sector	Generic
Occupation	Generic
NSQF Level	4
Credits	1
Version	2.0
Last Reviewed Date	NA
Next Review Date	24/02/2025
NSQC Clearance Date	24/02/2022







# **TEL/N9102: Interact Effectively with Team Members and Customers**

# **Description**

This OS unit is about interacting with superiors and colleagues as well as customers and other stakeholders in own or other work groups within as well as outside the organisation.

### Scope

The scope covers the following:

- Interact effectively with superiors
- Interact effectively with colleagues and customers
- Respect differences of gender and ability

#### **Elements and Performance Criteria**

#### Interact effectively with superiors

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

- **PC1.** receive work requirements from superiors and customers and interpret them correctly
- PC2. inform the supervisor and/or concerned person about any unforeseen disruptions or delays
- **PC3.** participate in decision making by providing facts and figures, giving/accepting constructive suggestions
- **PC4.** rectify errors as per feedback and ensure the errors are not repeated

#### Interact effectively with colleagues and customers

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

- **PC5.** comply with organisation's policies and procedures for working with team members
- **PC6.** communicate professionally using appropriate mode of communication such as face-to-face, telephonic and written
- **PC7.** respond to gueries and seek/provide clarifications if required
- **PC8.** co-ordinate with team to integrate work as per requirements
- **PC9.** resolve conflicts within the team/with customers to achieve smooth workflow
- **PC10.** recognize emotions accurately in self and others to build good relationships
- **PC11.** prioritize team and organization goals above personal goals

#### Respect differences of gender and ability

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

- **PC12.** maintain a conducive environment for all the genders at the workplace
- PC13. encourage appropriate behavior and conduct with people across gender
- PC14. assist team members with disability in overcoming any challenges faced in work
- **PC15.** practice appropriate verbal and non-verbal communication while interacting with People with Disability (PwD)
- **PC16.** ensure equal participation of the people across genders in discussions

# **Knowledge and Understanding (KU)**







The individual on the job needs to know and understand:

- **KU1.** organisation's policies on dress code, workplace timings, workplace behaviour, performance management, incentives, delivery standards, information security, etc.
- **KU2.** organisation's hierarchy and escalation matrix
- **KU3.** importance of establishing good working relationships with colleagues and superiors
- **KU4.** importance of helping colleagues with problems, in order to meet quality and time standards as a team
- **KU5.** different means and methods of communication
- **KU6.** different types of information that colleagues might need and the importance of providing this information in an appropriate manner
- **KU7.** organisation's policies and procedures for working with colleagues and superiors
- KU8. importance of understanding consequences of gender biased behaviour
- **KU9.** gender based concepts, issues and legislation
- **KU10.** organisation standards and guidelines to be followed for PwD and knowledge about laws, acts and provisions defined for PwD by the statutory bodies and the right way to use them including various medical conditions associated with PwD
- KU11. health and safety requirements at workplace for PwD
- KU12. process of recruiting people for a particular job profile w.r.t PwD and gender
- **KU13.** various government/private schemes and benefits available for PwD and information about various institutes working for PwD to enable in providing livelihood opportunities for PwD

#### **Generic Skills (GS)**

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

- **GS1.** read and comprehend forms, documents and records
- GS2. read and write in English and/or local language
- **GS3.** complete work with attention to detail
- **GS4.** listen effectively and orally communicate information
- **GS5.** work as per customer requirements
- GS6. communicate with empathy across genders and PwD
- **GS7.** improve and modify work practices
- **GS8.** maintain positive and effective relationships with colleagues and customers
- **GS9.** evaluate the possible solution(s) to the problem







# **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Interact effectively with superiors	7	15	-	2
<b>PC1.</b> receive work requirements from superiors and customers and interpret them correctly	1	2	-	-
<b>PC2.</b> inform the supervisor and/or concerned person about any unforeseen disruptions or delays	2	4	-	1
<b>PC3.</b> participate in decision making by providing facts and figures, giving/accepting constructive suggestions	2	5	-	1
<b>PC4.</b> rectify errors as per feedback and ensure the errors are not repeated	2	4	-	-
Interact effectively with colleagues and customers	7	26	-	4
<b>PC5.</b> comply with organisation's policies and procedures for working with team members	1	2	-	-
<b>PC6.</b> communicate professionally using appropriate mode of communication such as face-to-face, telephonic and written	2	4	-	1
<b>PC7.</b> respond to queries and seek/provide clarifications if required	2	4	-	1
<b>PC8.</b> co-ordinate with team to integrate work as per requirements	-	3	-	-
<b>PC9.</b> resolve conflicts within the team/with customers to achieve smooth workflow	1	5	-	1
<b>PC10.</b> recognize emotions accurately in self and others to build good relationships	1	4	-	-
PC11. prioritize team and organization goals above personal goals	-	4	-	1
Respect differences of gender and ability	11	24	-	4
<b>PC12.</b> maintain a conducive environment for all the genders at the workplace	2	5	-	1







Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. encourage appropriate behavior and conduct with people across gender	2	5	-	1
<b>PC14.</b> assist team members with disability in overcoming any challenges faced in work	3	4	-	1
PC15. practice appropriate verbal and non-verbal communication while interacting with People with Disability (PwD)	2	4	-	1
<b>PC16.</b> ensure equal participation of the people across genders in discussions	2	6	-	-
NOS Total	25	65	-	10







# **National Occupational Standards (NOS) Parameters**

NOS Code	TEL/N9102
NOS Name	Interact Effectively with Team Members and Customers
Sector	Telecom
Sub-Sector	Generic
Occupation	Generic
NSQF Level	4
Credits	1
Version	2.0
Last Reviewed Date	NA
Next Review Date	24/02/2025
NSQC Clearance Date	24/02/2022







# **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
Introduction to Employability Skills	1	1	-	-
<b>PC1.</b> identify employability skills required for jobs in various industries	-	-	-	-
<b>PC2.</b> identify and explore learning and employability portals	-	-	-	-
Constitutional values - Citizenship	1	1	-	-
<b>PC3.</b> 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	2	4	-	-
<b>PC5.</b> recognize the significance of 21st Century Skills for employment	-	-	-	-
<b>PC6.</b> 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	2	3	-	-
<b>PC7.</b> use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
<b>PC8.</b> read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
<b>PC9.</b> write short messages, notes, letters, e-mails etc. in English	-	-	-	-
Career Development & Goal Setting	1	2	-	-







Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC10.</b> understand the difference between job and career	-	-	-	-
<b>PC11.</b> prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
Communication Skills	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	-	-	-	-
Diversity & Inclusion	1	2	-	-
<b>PC14.</b> 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	2	3	-	-
<b>PC16.</b> select financial institutions, products and services as per requirement	-	-	-	-
<b>PC17.</b> carry out offline and online financial transactions, safely and securely	-	-	-	-
<b>PC18.</b> 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	3	4	-	-
<b>PC20.</b> operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
<b>PC21.</b> use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
<b>PC22.</b> use basic features of word processor, spreadsheets, and presentations	-	-	-	-







Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Entrepreneurship	2	3	-	-
<b>PC23.</b> identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
<b>PC24.</b> develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
<b>PC25.</b> identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
Customer Service	1	2	-	-
PC26. identify different types of customers	-	-	-	-
<b>PC27.</b> identify and respond to customer requests and needs in a professional manner.	-	-	-	-
<b>PC28.</b> follow appropriate hygiene and grooming standards	-	-	-	-
Getting ready for apprenticeship & Jobs	2	3	-	-
PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
<b>PC30.</b> search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
<b>PC31.</b> apply to identified job openings using offline /online methods as per requirement	-	-	-	-
<b>PC32.</b> answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
<b>PC33.</b> 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	NA
Next Review Date	17/11/2025
NSQC Clearance Date	17/11/2022

# 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.







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/N0111.Lay cable/system wiring and install equipment at customer premises	40	50	-	10	100	17
TEL/N0112.Configure customer premises equipment and establish Broadband connectivity	40	50	-	10	100	17
TEL/N0113.Troubleshoot and Rectify Faults	40	50	-	10	100	17
TEL/N9101.Organize Work and Resources as per Health and Safety Standards	30	60	-	10	100	17
TEL/N9102.Interact Effectively with Team Members and Customers	25	65	-	10	100	17
DGT/VSQ/N0102.Employability Skills (60 Hours)	20	30	-	-	50	15
Total	195	305	-	50	550	100







# **Acronyms**

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
СРЕ	Customer Premise Equipment
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
Modem	Modulator/Demodulator
СРИ	Central Processing Unit
PoP	Point of Presence
OHS	Organizational Health & Safety
EMI	Electro Magnetic Interference
EMC	Electro Magnetic Compatibility
JB	Junction Box
SHE	Safety Health & Environment
OHS	Operational Health & Safety
OFC	Optical Fiber Cable
STP	Shielded Twisted Pair
UTP	Un-Shielded Twisted Pair
MAC	Media Access Control
IP	Internet Protocol







# **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.
Sector	Sector is a conglomeration of different business operations having similar businesses 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.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
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 they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.







Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
NOS	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Qualifications Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A qualifications Pack is assigned a unique qualification pack code.
Unit Code	Unit Code is a unique identifier for an Occupational Standard, which is denoted by an â€~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.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization 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 or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working 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.'