



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR TELECOM INDUSTRY

What are	2	
Occupation	nal	
Standards	(OS)	?

- Solution OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

Contact Us:

2nd Floor, C-DOT Campus, Mandi Road, Mehrauli New Delhi - 110030 T: +91 11 26598711 F: +91 11 26805318 E-mail:

tssc@tsscindia.com



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Introduction

Qualifications Pack-Grass Root Telecom Provider (GRTP)

SECTOR: TELECOM

SUB-SECTOR: Network Managed Services

OCCUPATION: Operation & Maintenance

REFERENCE ID: TEL/Q6207

ALIGNED TO: NCO-2004/Nil

Brief Job Description: Individual in this role is responsible to keep ONT site operational on 24x7 basis; maintain and repair basic faults/issues at ONT site; promote use of devices among local population and provide services.

Personal Attributes: This job requires the individual to be technically qualified; self-disciplined; assertive; team player; action-orientated; possess analytical skills & problem solving ability; effective communication skills and ability to work under pressure.







Job Details

Qualifications Pack Code	TEL/Q6 207		
Job Role	Grass Root Telecom Provider (GRTP)		
Credits(NSQF)		Version number	1.0
Sector	Telecom	Drafted on	19/09/2014
Sub-sector	Network Managed Services	Last reviewed on	08/10/2014
Occupation	Operations & Maintenance	Next review date	08/10/2016

Job Role	Grass Root Telecom Provider (GRTP)	
Role Description	Maintain ONT site to keep it operational, promote use of devices and provide services	
NSQF level	4	
Minimum Educational Qualifications	Preferably 10+2	
Maximum Educational Qualifications		
Training	NA	
Experience	Nil	
Applicable National Occupational Standards (NOS)	(Click to open the below hyperlinks) Compulsory: 1. TEL/N6226 (Site security and hygiene) 2. TEL/N6227 (Preventive maintenance) 3. TEL/N6228 (Promote use of devices and provide services) Optional: NA	
Performance Criteria	As described in the relevant OS units	







Keywords /Terms	Description
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 under which role-holders 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 (Occupational Standards)	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 standards of performance required when carrying out a task
National Occupational Standards	NOS are Occupational Standards which apply uniquely in the Indian Context
QP (Qualification 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.
Qualification Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack
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 has a critical impact on the quality of performance required
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
Knowledge and Understanding	Knowledge and Understanding statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standards
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



Qualifications Pack for GRTP



Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities	
Core Skills/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	

The following acronyms/codes have been used in the nomenclature above:

	Keywords /Terms	Description
	CCU	Charge Controller Unit
Suc	GP	Gram Panchayat
Definitions	NOC	Network Operations Centre
fin	ONT	Optical Network Terminal
De	OLT	Optical Line Terminal
	ODF	Optical Distribution Frame
	PM	Preventive Maintenance
	SLA	Service Level Agreement
	SP	Service Provider
	SPV	Solar Photo Voltaic System

Terminal Joint Box

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TJB



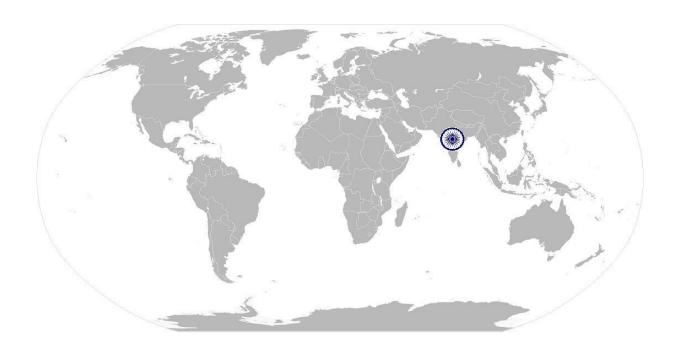




Site security and hygiene

TEL/N6226

National Occupational Standard



Overview

This unit is about keeping ONT site operational by maintaining site hygiene and security.



National Occupational Standards



TEL/N6226

Site security and hygiene

	Unit Code	TEL/N6405		
	Unit Title	Site security and hygiene		
ĺ	Description	This OS unit is about maintaining the ONT site security and hygiene		
	Scope	 This unit/task covers the following: Coordinating activities for site security and hygiene Monitoring equipment and record keeping Interacting with OLT/NOC supervisor, Gram Panchayat officials 		
	Performance Criteria(Pe) w.r.t. the Scope:		
		Performance Criteria		
		To be competent, the user/individual on the job must be able to:		
		PC1. function as custodian by taking responsibility of the ONT site PC2. monitor to verify CCU,SPV,TJB and battery bank are working properly PC3. maintain hygiene of CCU,SPV,TJB and Battery Bank based on guidelines PC4. verify cable connecters for appropriate tightness PC5. verify cables for damage and replace if required PC6. use fire extinguisher to control fire it case of accident PC7. ensure ONT remain operational and powered on 24X7 basis PC8. fill in activity records in given format		
	Knowledge and Unders	anding		
	A. Organizational Context (Knowledge of the company / organization & its process relevant to area of responsibilities)	The user/individual on the job needs to know and understand: KA1. the importance of maintaining ONT site hygiene KA2. the importance of keeping ONT operational on 24X7 basis KA3. the importance of following procedures and instructions KA4. escalation matrix for reporting problems with equipment and optical fiber cables KA5. SHE guidelines as per norms		
	B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. functionality of CCU,SPV,TJB,battery bank and fire extinguisher KB2. guidelines for maintaining hygiene of equipments at site KB3. basic electrical wiring		

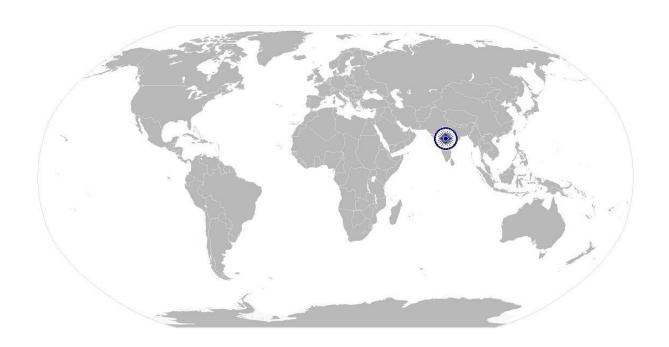






Site security and hygiene

Ski	Skills (S)			
A.	A. Core Skills/ The user/ individual on the job needs to know and understand how to:			
SA2. writing skills- fill in activity record in given format SA3. communication skills-communicate with OLT/NOC supervisor		SA3. communication skills-communicate with OLT/NOC supervisor SA4. Interpersonal skills-maintain working relationships with OLT/NOC supervisor		
В.	Professional Skills	The user/individual on the job needs to know and understand how to: SB1. equipment handling skills-CCU,SPV,TJB,battery bank and fire extinguisher		





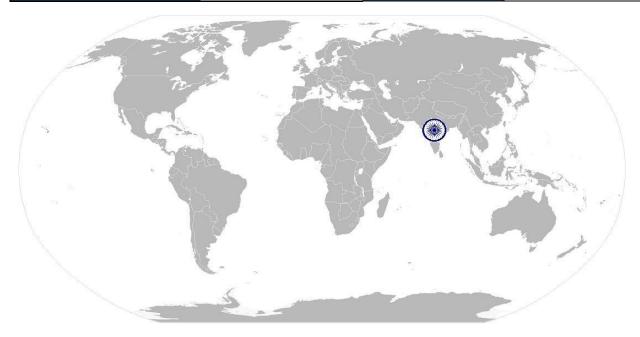




Site security and hygiene

NOS Version Control:

NOS Code	TEL/N6226		
Credits(NSQF)		Version number	1.0
Industry	Telecom	Drafted on	19/09/2014
Industry Sub-sector	Network Managed Services	Last reviewed on	08/10/2014
		Next review date	08/10/2016



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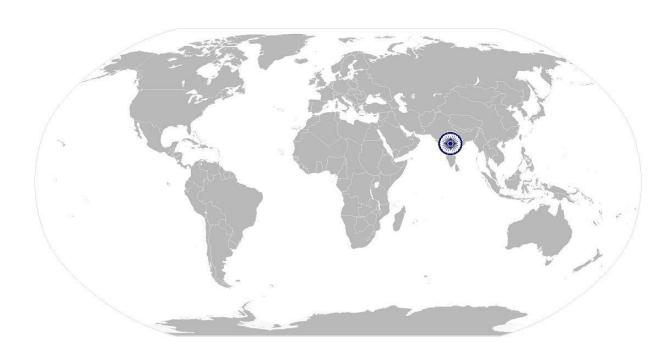






Preventive maintenance

National Occupational Standard



Overview

This unit is about conducting regular preventive maintenance activities at the ONT site.







Preventive maintenance

Unit Code	TEL/N6227		
Unit Title (Task)	Preventive maintenance		
Description	This OS unit is about performing regular preventive maintenance activities		
Scope	This unit/task covers the following:		
Performance Criteria (F	PC) w.r.t. the Scope:		
	Performance Criteria		
	To be competent, the user/individual on the job must be able to: PC1. read to interpret preventive maintenance guidelines of CCU,SPV,TJB and battery bank PC2. ensure preventive maintenance of CCU,SPV,TJB and battery bank as per given schedule PC3. monitor CCU panel to observe and interpret alarm PC4. monitor and verify premature ageing of battery bank cells and SPV panels PC5. monitor patch cord and pigtails and replace if found damaged PC6. escalate to OLT/NOS supervisor for reporting problems with equipments and optical fiber cables		
Knowledge and Unders			
A. Organizational Context (Knowledge of the company / organization & its process relevant to area of responsibilities)	The user/individual on the job needs to know and understand: KA1. the importance of ONT remaining operational at all times KA2. the importance of adhering to preventive maintenance schedule KA3. the importance of following procedures and instructions KA4. escalation matrix for reporting problems with equipment and optical fiber cables KA5. SHE guidelines as per norms		







Preventive maintenance

B. Technical	The user/individual on the job needs to know and understand:	
Knowledge	 KB1. functionality of CCU,SPV,TJB,battery bank, fire extinguisher and alarms KB2. guidelines for preventive maintenance of equipments KB3. basic electrical wiring, ,patch cord and pigtails KB4. FAQ for basic troubleshooting of equipment 	
Skills (S)		
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. reading skills-read and understand manuals, health and safety instructions SA2. writing skills- fill records as per given format SA3. communication skills-communicate with OLT/NOC supervisor SA4. Interpersonal skills-maintain working relationships with OLT/NOC supervisor and with Gram Panchayat (GP) officials	
B. Professional Skills	The user/individual on the job needs to know and understand how to: SB1. equipment handling skills-CCU,SPV,TJB,battery bank and fire extinguisher SB2. problem solving skills-basic trouble shooting with CCU,SPV,TJB,battery bank	







Preventive maintenance

NOS Version Control:

NOS Code	TEL/N6227		
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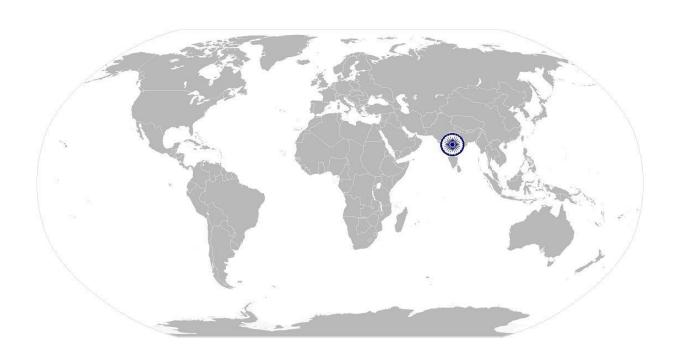






Promote use of devices and provide services

National Occupational Standard



Overview

This unit is about acquainting local population about use of local devices (smart phone, tablets and e- terminals) and provisioning of services.







Promote use of devices and provide services

	Unit Code	TEL/N6228		
	Unit Title (Task)	Promote use of devices and provide services		
	Description	This OS unit is about promotion of local devices and service provisioning		
	Scope	This unit/task covers the following:		
		And attack to the control of the transfer of t		
		Acquainting local population about use of devices		
		Configuring devices and basic trouble shooting		
		Distribution of bills and collection of revenue from users		
		Performance Criteria		
		Performance Criteria		
		PC1. create awareness by informing local population features of local devices (smart phone tablets and e- terminals) PC2. acquaint local population about use of local devices PC3. operate and configure smart phone ablets and e- terminals PC4. install to operate modem using routers, UPS, cables PC 5. perform basic trouble shooting with devices PC 6. keep a record of rent agreement and electricity bill for ONT site PC7. report superior for timely payment of rent and electricity bill for the site		
Knowledge and Understanding				
	A. Organizational Context (Knowledge of the company / organization & its process relevant to area of	The user/individual on the job needs to know and understand: KA1. the importance of promotion of digital devices KA2. the importance of creating awareness among people for services offered KA3. the importance of following procedures and instructions KA4. escalation matrix for reporting problems with services KA5. SHE guidelines as per norms		







Promote use of devices and provide services

B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. functionality of lap top,smart phones,tablets and e-terminals KB2. functionality of modem,routers,UPS,cables KB3. hardware and software configuration					
	KB4. FAQ for basic troubleshooting of equipment KB5. benefits of broadband for people					
Skills (S)	Skills (S)					
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. reading skills-read and understand manuals,instructions,bills etc SA2. writing skills- fill records as per format SA3. communication skills-communicate with SP,local population and users SA4. interpersonal skills-maintain working relationships with service provider and users					
B. Professional Skills	The user/individual on the job needs to know and understand how to: SB1. equipment handling skills- modem,routers,UPS,cables, lap top,smart phones,tablets and e-terminals SB2. problem solving skills- basic trouble shooting with lap top,smart phones,tablets and e-terminals					



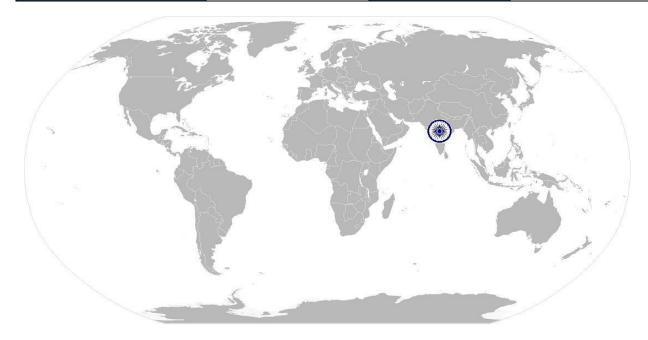




Promote use of devices and provide services

NOS Version Control:

NOS Code	TEL/N6228			
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Job Role Grass Root Telecom Provider (GRTP)

Qualification PackTEL/Q6202Sector Skill Council: Telecom

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
- 3.Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
- 4. To pass the Qualification Pack, every trainee should score a minimum of 40% in every NOS and 50% overall.
- 5. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

NOS	PC	Total Mark (300)	Out of	Theory	Skills Practical
	PC1. function as custodian by taking responsibility of the ONT site		10	10	0
	PC2. monitor to verify CCU,SPV,TJB and battery bank are working properly		15	3	12
	PC3. maintain hygiene of CCU,SPV,TJB and Battery Bank based on guidelines		15	3	12
	PC4. verify cable connecters for appropriate tightness		10	2	8
Site Security and hygiene	PC5. verify cables for damage and replace if required	100	10	2	8
	PC6. use fire extinguisher to control fire in case of accident		10	2	8
	PC7. ensure ONT remain operational and powered on 24X7 basis		20	5	15
	PC8. fill in activity records in given format		10	5	5
		Total	100	32	68
	PC1. read to interpret preventive maintenance guidelines of CCU,SPV,TJB and battery bank		20	10	10
	PC2. ensure preventive maintenance of CCU,SPV,TJB and battery bank as per given schedule		30	10	20
Preventive Maintenance	PC3. monitor CCU panel to observe and interpret alarm	100	10	2	8

	PC4. monitor and verify premature ageing of battery bank cells and SPV panels		10	2	8
	PC5. monitor patch cord and pigtails and replace if found damaged		10	2	8
	PC6. escalate to OLT/NOS supervisor for reporting problems with equipments and optical fiber cables		20	10	10
		Total	100	36	64
	PC1. create awareness by informing local population features of local devices (smart phone tablets and e- terminals)	100	15	5	10
	PC2. acquaint local population about use of local devices		20	5	15
Promote use of devices and provide services	PC3. operate and configure smart phone, tablets and e- terminals		20	5	15
	PC4. install to operate modem using routers,UPS,cables		15	5	10
	PC 5. perform basic trouble shooting with devices		15	5	10
	PC 5. distribute bills and collect revenue from users		5	2	3
	PC 6. keep a record of rent agreement and electricity bill for ONT site		5	4	1
	PC7. report superior for timely payment of rent and electricity bill for the site		5	3	2
		Total	100	34	66