





QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR TELECOM INDUSTRY

What are Occupational Standards(OS)?

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

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Introduction

Qualifications Pack - Line Assembler - Telecom Products

SUB-SECTOR: TELECOM Handset

OCCUPATION: Communication Electronics

REFERENCE ID: TEL/Q2502

ALIGNED TO: NCO-2015/3114.1402

Brief Job Description: Line assembler is responsible for assembly of handsets and telecom equipment various stages of the production/ assembly line operations adhering to the stages/ process which are pre-defined. The outcome of the activity is fully/ partially assembled unit. The job includes assembly of electronic boards, components and related accessories using relevant tools as per work instructions and product specification drawings.

Personal Attributes: This job requires the individual to have technical appreciation of the processes, ability to understand technical details, logical thinking and clear approach to the defined processes with an eye for details. Individual needs to be focused, process oriented and should have ability to work with concentration during the shift hours.











Qualifications Pack Code	TEL/Q2502		
Job Role	Line Assembler - Telecom Products		
Credits (NSQF)	TBD	Version number	1.0
Sector	Telecom	Drafted on	12/07/2017
Sub-sector	Handset	Last reviewed on	10/11/2017
Occupation	Communication Electronics	Next review date	10/11/2021
NSQF Clearance on		19/12/2018	

Job Role	Line Assembler - Telecom Products	
Role Description	Line assembler is responsible for assembly of handsets and telecom equipment at various stages of the production/ assembly line operations adhering to the stages/ process which are pre-defined.	
NSQF level	4	
Minimum Educational Qualifications*	ITI/Diploma (Electrical/Electronics/IT/Telecom stream/ related stream) or Qualified on Handset Repair Eng QP with 1 yr exp.	
Maximum Educational Qualifications*	NA	
Training (Suggested but not mandatory)	NIL	
Experience	01 Yr for candidates qualified on Handset Repair QP (TEL/Q2201)	
Minimum entry Job Age	18 Years	
Applicable National Occupational Standards (NOS)	Compulsory: 1. TEL/N2506 (Preparing workspace for assembly operations) 2. TEL/N2507 (Assembly operations in production line) 3. TEL/N2508 (ESD safe procedures and practices) 4. TEL/N2509 (Health & Safety)	
Performance Criteria	As described in the relevant OS units	







S	Keywords/ Terms
efinitions	Sector
De	Sub-sector
	Occupation
	Function
	Job Role
	OS

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, 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 on 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 '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.









Keywords/ Terms	Description
SMD	Surface Mount Devices
SMT	Surface Mount Technology
THD	Through Hole Devices
ТНТ	Through Hole Technology
РСВ	Printed Circuit Board
AC/DC	Alternating/ Direct Current
R, C, L	Resistence, Capacitor, Inductor
HIRA	Hazard Identification and Risk Assessment
HLA	Higher Level Assembly
Txr	Transmitter
SHE	Safety, Health and Environment
OHS	Occupational Health and Safety



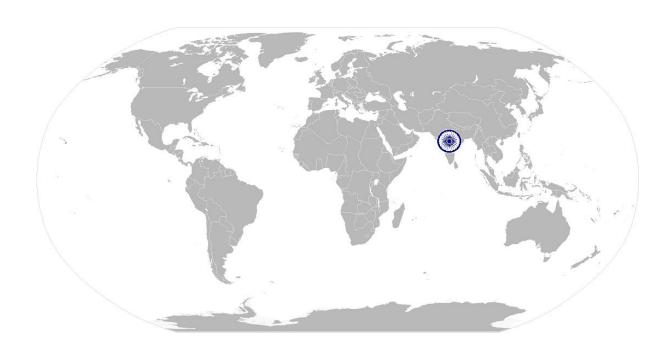






Preparing workspace for assembly operations

National Occupational Standard



Overview

This unit is about preparing the workplace for assembly operations.









TEL/N2506 Preparing workspace for assembly operations

Unit Code	TEL/N2506		
Unit Title (Task)	Preparing workspace for assembly operations		
Description	This unit describes the preparation of workplace for assembly operations		
Scope	This unit/task covers the following:		
	arrangement of components/ parts and assembly bench		
	arranging tools and equipment required for assembly		
Performance Criteria (F	PC) w.r.t. the scope		
Element	Performance Criteria		
Arrangement of	The user/individual on the job should be able to:		
components/parts	PC1. draw correct components from stores as per the work instructions		
and assembly bench	PC2. demonstrate understanding of the work instructions and familiarity with the assembly instructions		
	PC3. demonstrate arrangement of components as per the assembly instructions		
	PC4. verify specifications of all components as per the work instructions		
Arranging tools and	The user/individual on the job should be able to:		
equipment required	PC5. identify and draw tools and equipment requirement as per the work		
for assembly	instructions		
	PC6. ascertain compliance/correctness (calibarations) wherever required		
	PC7. ascertain proper operation of all the tools/equipment		
Knowledge and Unders	tanding (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. organizational policies, procedures and processes related to stores, issue		
(Knowledge of the	and return of components		
company/	KA2. work practices and health & safety requirements		
organization and	KA3. responsibility and escalation matrix		
its process)			
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. type of electronic parts/ components KB2. safe handling practices of electronic components		
	KB3. types of mechanical parts like screws, nuts, securing clips and their		
	applicability		
	KB4. applicability of basic assembly tools and range of hand tools like screw drivers,		
	electric screw drivers, spanners, forceps, forming players, cutters etc.		
	KB5. types of semi-automatic tools used for electronics components fitment/		
	forming/ preparation like thermal wire strippers, adjustable electronic		
	board holders, led free soldering tools, precision screw driver set.		
	KB6. different types of consumables used for soldering and their conditions/usage		
	/application in assembly operations including any specifications by the		
	customer and customer supplied consumables. Storage and handling before		
	usage of these consumables like thawing, stirring, FIFO etc.		









TEL/N2506 Preparing workspace for assembly operations

Skill (s) [Optional] A. Core Skills/ Generic Skills	KB7. general SHE aspects and importance of following safe product/components handling techniques during assembly and impact on environment, product, parts and property including safe movement/storage and/or lifting of materials/packages etc. Writing Skills The user/individual on the job needs to know and understand how to: SA1. fill up stores issue/return forms, activity logs, attendance sheets as per organizational format SA2. write basic accident or incident report as witnessed in appropriate format to relevant authority
	SA3. identify and report abnormality/not fit for use parts/products to the relevant authority Reading Skills
	The user/ individual on the job needs to know and understand how to:
	SA4. read/listen and interpret information correctly from relevant work instructions, documents and manuals SA5. read relevant signages, warnings, labels or descriptions related to assembly
	operations Oral Communication Skills (Listening and speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA6. convey and share technical information clearly using appropriate language SA7. check and clarify task related information
	SA8. liaise with appropriate authorities using correct protocol
	SA9. communicate with people in respectful form and manner in line with
	organizational protocol and general office etiquette and discipline
B. Professional SKills	Decision Making
S. C.	The user/individual on the job needs to know and understand how to:
	SB1. take work related decisions in compliance to the organizational directives and guidelines
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB2. plan, prioritize and sequence work operations as per job requirements
	SB3. organize and analyze information relevant to work
	SB4. basic concepts of shop floor work productivity including waste reduction, efficient material usage and optimization of time
	Customer Centricity









Preparing workspace for assembly operations

The user/individual on the job needs to know and understand how to:

- SB5. be cost conscious combined with of criticality of components in terms of availability and impact on customer
- SB6. follow quality standards understanding the importance of the product and internal customer orientation

Problem Solving

The user/individual on the job needs to know and understand how to:

- SB7. identify problems with work planning, procedures and output
- SB8. prioritize and plan for problem solving
- SB9. take most appropriate steps towards problem resolve without compromising work safety and/or productivity (as per the situation)

Analytical Thinking

Not applicable

Critical Thinking

Not applicable











Preparing workspace for assembly operations

NOS Version Control

NOS Code	TEL/N2506		
Credits (NSQF)	TBD	Version number	1.0
Industry	Telecom	Drafted on	12/07/2017
Industry Sub-sector	Handset	Last reviewed on	10/11/2017
Occupation	Communication Electronics	Next review date	10/11/2021





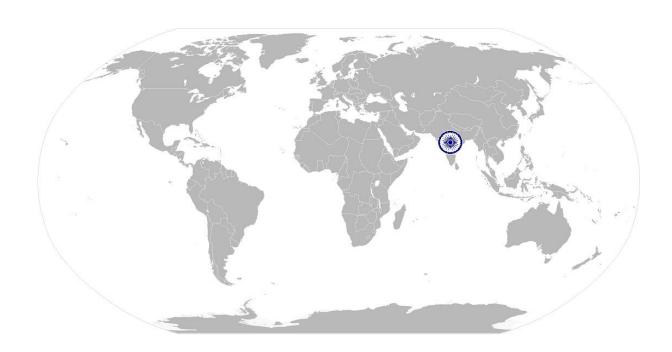






Assembly operations in production line

National Occupational Standard



Overview

This unit is about undertaking assembly operations in a production line.



National Occupational Standards





TEL/N2507

Assembly operations in production line

Unit Code	TEL/N2507
Unit Title (Task)	Assembly operations in production line
Description	This unit is about undertaking assembly operations in a production line
Scope	This unit/task covers the following:
	assembly operations of telecom devices/products
	post assembly activities
Performance Cri	eria (PC) w.r.t. the scope
Element	Performance Criteria
Assembly operatelecom devices products	PC1. ascertain availability of all parts/components, vis-à-vis the specifications and assembly guidelines PC2. ascertain availability of all tools and equipment to carry out work PC3. ascertain work safety compliance before commencing work PC4. sequence the parts and subassemblies in correct order PC5. demonstrate ability to read technical diagrams and specifications PC6. demonstrate basic skills of component handling, component fitment, use of basic assembly tools and mechanical fitments (special purpose screws etc) PC7. demonstrate assembly of the parts/componens using proper process, procedures, sequence and using right tools
Post assembly a	tivities The user /individual on the job should be able to: PC9. cross check intermediate and end of work compliance PC10. secure the workplace by clearing any loose/leftover consumables, spare components etc. PC11. account for all components used and match with the inventory issues. PC12. follow store compliances in terms of return of inventory (components, parts etc.) at the end of work PC13. document work done and account for all components as per company policy
Knowledge and	Inderstanding (K)
A. Organization Context (Knowledge of company / organization of processes)	KA1. quality standards, and compliances KA2. relevant health and safety requirements KA3. role and responsibilities as per the job profile and engagement terms









Assembly operations in production line









Assembly operations in production line

	SA6. read relevant symbols/signages, warnings, labels or descriptions on	
	equipment, related to ESD safety on packages, parts, tilts/equipment etc.	
	while carrying out work activities	
	Oral Communication (Listening and speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA7. convey and share technical information clearly	
	SA8. check and clarify task related information	
	SA9. liaise with appropriate authorities using correct protocol	
	SA10. communicate with people in respectful form and manner in-line with	
	organizational protocol and general office etiquette and discipline	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	SB1. comprehend work environment so as to take quick decision in case of any	
	work safety issues	
	Plan and Organize	
	The user/individual on the job needs to know and understand how to:	
	SB2. plan, prioritize and sequence work operations as per job requirements	
	SB3. organize and analyze information relevant to work	
	SB4. basic concepts of shop floor work productivity including waste reduction,	
	efficient material usage and optimization of time	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	SB5. identify and address problems related to work planning, procedures, output compliances	
	SB6. prioritize and plan for problem solving	
	SB7. communicate problems appropriately to others	
	SB8. identify sources of information and support for problem solving	
	SB9. identify and apply effective resolution techniques SB10. seek evidence for problem resolution	
	Analytical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB11. infer records of past incidents, emergencies, etc. to establish efficacy of alternative solutions,	
	SB12. use implicit and explicit knowledge gained over a period of time towards resoling problems/challenges encountered at work	
	Critical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB13. use reasoning ability combined with experience to determine possible	
	solutions to potential dangers or insecurity in the workplace	
	SB14. anticipate problems and implement remedial measures	





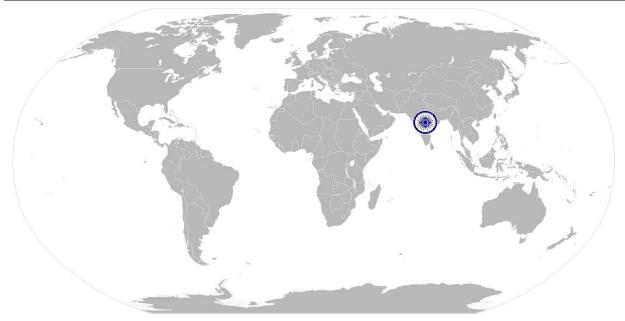




Assembly operations in production line

NOS Version Control

NOS Code	TEL /N2507							
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Industry	Telecom	Drafted on	12/07/2017					
Industry Sub-sector	Handset	Last reviewed on	10/11/2017					
Occupation	Communication Electronics	Next review date	10/11/2021					











ESD Safe Procedures and Practices

National Occupational Standard



Overview

This unit covers ESD safety proedures during the assembly operations and safe handling ESD sensetive components, sub-assemblies and product. It covers understanding of reposiblities towards safe ESD practices to prevent ESD related fallures.



National Occupational Standards





TEL/N2508 ESD Safe Procedures and Practices

Unit Code	TEL/N2508		
Unit Title (Task)	ESD safe procedures and practices		
Description	This unit covers ESD safety procedures during the assembly operations and safe handling ESD sensitive components, sub-assemblies and product. It covers understanding of responsibilities towards safe ESD practices to prevent ESD related failures.		
Scope	This unit/task covers the following:		
	Compliance to ESD processes and procedures		
Performance Criteria(PC) wa	r.t. the Scope		
Element	Performance Criteria		
Compliance to ESD processes and procedures	To be competent, the user/ individual on the job must be able to: PC1. demonstrate safe work practices as per the ESD process and protocol PC2. demonstrate grounding of all components in work area PC3. demonstrate use of ESD tools/equipment (static voltage checker, wrist straps, shoe grounders, air ionizers) PC4. demonstrate safe cleaning & clearing practices for removal of non-		
	essential items and equipment carrying electrostatic generating potential PC5. demonstrate the process of packing/unpacking of electronic components in compliance to ESD processes demonstrate safe handling of all semi-finished products after assembly operations (use of ESD free trays, conveyor lines)		
Knowledge and Understand			
A. Organisational	The user/individual on the job needs to know and understand:		
Context	KA1. importance and compliance of ESD policies and procedures		
(Knowledge of the	KA2. documents that refer to ESD safety in workplace		
company/organisation and its processes)	KA3. implications of not following the ESD protocols and its effect on the end product		
B. Technical Knowledge	The user/individual on the job needs to know and understand:		
b. Technical Knowledge	KB1. basics of ESD and it's effects on electronic components/performance KB2. classification of ESD materials		
	KB3. how to identify ESD sensitive parts, packages, areas and understanding of precautionary labels/ instructions for use/packing/ unpacking etc. KB4. sources of generation of Electrostatic energy		
	KB5. use/importance of all types of PPEs for ESD safe work, storage, packaging/handling materials like trays, bags etc.		
	KB6. levels of Electrostatic voltage generation during normal working environment on the shop floor like walking on various floors while soldering, cleaning etc.		
	KB7. impact of working on/handling on ESD sensitive products/components in a non-ESD safe area		
	KB8. ESD - paths while working on assemblies, sub-assemblies and component parts		









ESD Safe Procedures and Practices

	KB9. grounding paths and various methods/accessories used for grounding in				
	the work area like for e.g Tables, mats, flooring, wrist straps				
	KB10. imporatance of proper usage of ESD safe materials and importance of				
	checking these ESD safe PPEs and follow ESD processes and co-operate				
	with ESD audits				
	KB11. Basics of conducting ESD audits on various facility like work tables,				
	flooring, straps, aprons, static/anti-static packaging etc.				
	KB12. relevance of safe handling, storage/ stacking of parts, assembly/ sub-				
	assemblies to avoid/prevent ESD failures				
Skill (s) [Optional]					
A. Core Skills/	Writing Skills				
Generic Skills	The user/individual on the job needs to know and understand how to:				
	SA1. fill up appropriate forms, activity logs, attendance sheets as per				
	organizational format in English and/or local language to keep a log of ESD				
	safe acts and related logs/reports like checking the PPEs condtion, usage				
	of ESD safe equipment/tools as required by the organization				
	SA2. write audit finding/reports in an appropriate format to submit to relevant				
	authority				
	SA3. write relevant mails/respond to relevant mails as necessary				
	Reading Skills				
	The user/individual on the job needs to know and understand how to:				
	SA4. read and interpret information correctly from relevant instruction				
	documents, manuals, health and ESD safe instructions memos, etc.				
	SA5. read relevant symbols/signages, warnings, labels or descriptions on				
	equipment, packages, parts				
	Oral Communication skills				
	The user/individual on the job needs to know and understand how to:				
	SA6. convey and share ESD related technical information clearly using				
	appropriate language				
	SA7. seek/communicate and clarify task related information				
	SA8. communicate with people in respectful/thoughtfully/manner in-line with				
	organizational protocol				
	SA9. listen to instructions/feedback during discussions/meetings and				
	understand to be able to implement feedback/take suitable corrective				
D. Duefessienel Chille	actions Decision Melvins				
B. Professional Skills	Decision Making				
	The user/individual on the job needs to know and understand how to:				
	SB1. react to a potentially unsafe ESD situation				
	SB2. identify unsafe ESD conditions and actions of self and others				
	Plan and Organize				









ESD Safe Procedures and Practices

The user/individual on the job needs to know and understand how to:

- SB3. plan, prioritize and sequence work operations as per job requirements
- SB4. organize and arrange proper tools, PPEs (ESD) and material handling accessories before the start and/or after the work is completed
- SB5. ensure/check all ESD safe aspects in the workplace and to comply with all safe procedures applicable for the work/stage assigned

Customer Centricity

The user/individual on the job needs to know and understand how to:

- SB6. be ESD safe all time during working and be aware of the possible impact on the end product and/or usage conditions by not following ESD safe processes or not using the PPEs at the right place/time
- SB7. assess impact on customer of not reporting unsafe conditions and/or not solving or supporting precautionary measures before delivery/dispatch

Problem Solving

The user/individual on the job needs to know and understand how to:

- SB8. identify ESD unsafe actions and provide possible solutions
- SB9. immediate corrections/corrective actions of non-conformance/feedback indicated during ESD safety inspections/audits
- SB10. take appropriate actions in reporting and replacing worn out charts/labels displays in various areas to help educate/identify ESD safety aspects
- SB11. help and support educate new comers, trainees on safety aspects in their area to help prevent failures due to unsafe ESD conditions

Analytical Thinking

The user/individual on the job needs to know and understand how to:

- SB12. identify failure prone actions of w.r.t. ESD safe procedures and analyse the situation for a possible failure/impact on the product at the customer end
- SB13. contribute solving problems by experience as a part of the team in related to areas of production

Critical Thinking

The user/individual on the job needs to know and understand how to:

SB14. use reasoning ability to determine possible solutions to potential failures for the customer





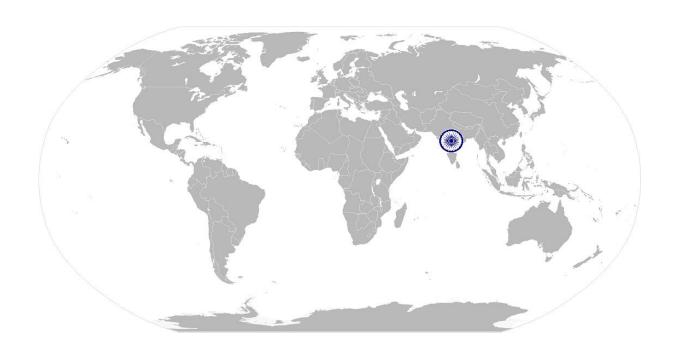




ESD Safe Procedures and Practices

NOS Version Control

NOS Code	TEL /N2508						
Credits (NSQF)	TBD	Version number 1.0					
Industry	Telecom	Drafted on	12/07/2017				
Industry Sub-sector	Handset	Last reviewed on	10/11/2017				
Occupation	Communication Electronics	Next review date	10/11/2021				





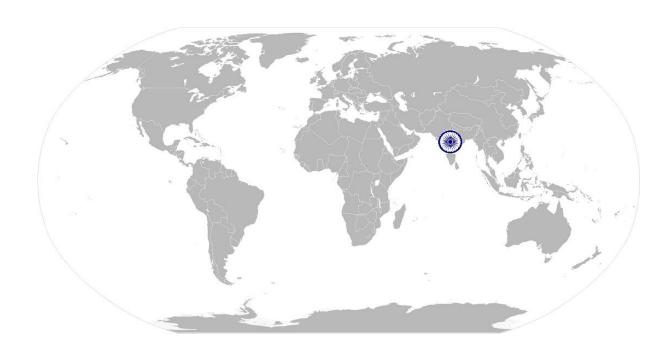






Health and Safety

National Occupational Standard



Overview

This unit is about monitoring the working environment and making sure it meets requirements for health, safety and security.



National Occupational Standards





TEL/N2313

Health and Safety

Unit Code	TEL/N2509				
Unit Title (Task)	Health and safety				
Description	This unit is about monitoring the working environment and making sure it meets requirements for health, safety and security.				
Scope	This unit/task covers the following: Health & Safety: Compliance and emergency procedures • hazards • fire • accident • site emergency				
Performance Criteria (PC) w					
Element	Performance Criteria				
Health and safety: Compliance and emergency procedures	To be competent, the user/individual on the job must be able to: PC1. ensure that work is carried out in accordance with the laid down safety, security policies and procedures of the organization PC2. ensure that site is assessed for safety and emergency readiness compliance as per company's guidelines PC3. ensure electrical safety compliances and EMI/EMC hygiene requirements are met as per the guidelines PC4. identify and correct any hazard pat you can deal with safely, competently and within the limits of your authority PC5. report any hazards that you are not competent to deal with to the relevant person in line with organizational procedures and warn other people who may be affected PC6. follow your organizations's emergency procedures promptly, calmly and efficiently PC7. identify and recommend opportunities for improving health, safety, security to the designated person PC8. complete any health and safety records legibly and accurately				
Knowledge and Understand	ing (K)				
A. Organizational Context (Knowledge of the company/organization and its process)	The user/individual on the job needs to know and understand: KA1. legislative requirements and organizations procedures for health, safety and security and role and responsibilities in relation to this KA2. what is meant by hazard, including the different types of health and safety hazards that can be found in the workplace KA3. how and when to report hazards KA4. limits of your responsibility for dealing with hazards KA5. your organization's emergency procedures for different emergency situations and the importance of following these KA6. importance of maintaining high standards of health, safety and security KA7. implications that any non – compliance with health, safety and security may have on individuals and the organization				









Health and Safety

B. Technical Knowledge	The user/individual on the job needs to know and understand:
	KB1. different types of breaches in health, safety and security and how and when
	to report these
	KB2. evacuation procedures for works and visitors
	KB3. how to summon medical assistance and the emergency services, where
	necessary
	KB4. how to use the health, safety and accident reporting procedures and the
	importance of these
	KB5. government agencies in the area of safety, health and security and their
	norms and services
	KB6. know and understand the MSDS of any chemicals used in soldering activity
Skill (s) [Optional]	
A. Core Skills/	Writing Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	SA1. complete accurate well-written work with attention in detail
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA2. read instructions, guidelines, procedures, rules and service level
	agreements
	Oral Communication (Listening and speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA3. listen effectively and orally communicate information accurately
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to:
	SB1. make decision on suitable course location
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB2. plan and organize work to meet health, safety and security requirements
	Customer Centricity
	Not applicable
	Problem Solving Skills
	The user/individual on the job needs to know and understand how to:
	SB3. apply problem solving approaches in different situations
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB4. analyze data and activities
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB5. apply balanced judgements to different situations SB6. apply, analyze and evaluate the information gathered from observation,
	experience, reasoning or communication, as guide to thought and action
	experience, reasoning or communication, as gaine to mought and action





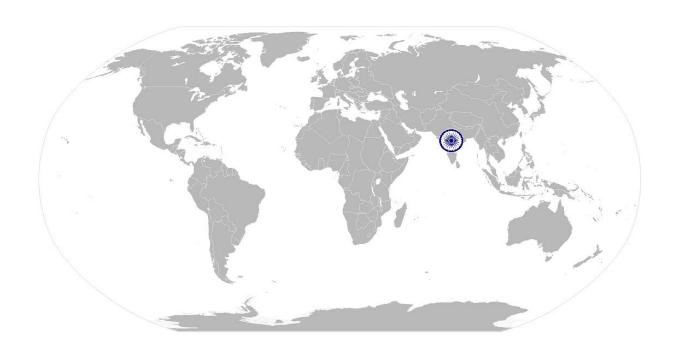




Health and Safety

NOS Version Control

NOS Code	TEL /N2313					
Credits (NSQF)	TBD	Version number	1.0			
Industry	Telecom	Drafted on	12/07/2017			
Industry sub-sector	Handset	Last reviewed on	10/11/2017			
Occupation	Communication Electronics	Next review date	10/11/2021			







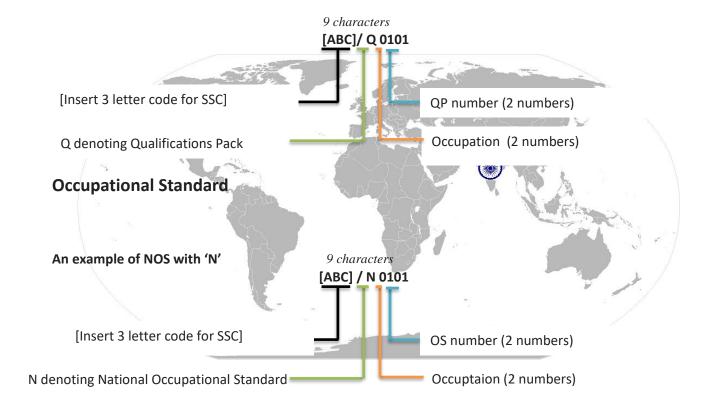




Annexure

Nomenclature for QP and NOS

Qualifications Pack: TEL/Q0101











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

Sub-sector	Range of Occupation numbers				
Service	01- 20				
Handset	21 – 40				
Passive Infra	41 – 60				
Network managed	61 – 80				

Sequence	Description	Example		
Three letters	Industry name	TEL		
Slash				
Next letter	Whether Q P or NOS	Q		
Next two numbers	Occupation code	01		
Next two numbers	OS number	01		









CRITERIA FOR ASSESSMENT OF TRAINEES

<u>Job Role</u> : Line Assembler - Telecom Products

Qualification Pack : TEL/Q2502

<u>Sector Skill Council</u>: Telecom Sector Skill Council

- 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. 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 and skill practical part for each candidate at each examination/ training center.
- 5. To pass the Qualification Pack, every trainee should score a minimum 70% of aggregate marks to successfully clear the assessment.
- 6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Compulsory NOS				Total Marks: 400		Marks Allocation	
Assessment Outcomes		Assessment Criteria	Total Marks (400)	Out Of	Theory	Skills Practical	
TEL/N2506	PC1.	draw correct components from stores as per the			-	-	
Arrangement of		work instructions		10	5	5	
components/parts and	PC2.	demonstrate understanding of the work		10	_	_	
assembly bench		instructions and familiarity with the assembly			5	5	
	PC3.	demonstrate arrangement of components as per	1	10	4	6	
		the assembly instructions			4	0	
	PC4.	verify specifications of all components as per the		15	7	8	
		work instructions			,	0	
Arranging tools and	PC5.	Identify and draw tools and equipment requirement as		20	10	10	
equipment required		per the work instructions			10	10	
for assembly	PC6.	ascertain compliance/correctness (calibarations)			10	10	
		wherever required	100	20	10	10	
	PC7.	ascertain proper operation of all the tools/equipment		15	7	8	
	Total		100	100	48	52	
TEL/N2507	PC1.	ascertain availability of all parts/ components, vis-à-		10	6	4	
Assembly operations		vis the specifications and assembly guidelines	100				
of telecom							
devices/products	PC2.	ascertain availability of all tools and equipment to		10	5	5	
		carry out work		10	7	3	
	PC3.	ascertain work safety compliance before		10	/	3	
	PC4.	commencing work		10	5	5	
	PC4.	sequence the parts and subassemblies in correct order					
	PC5.	demonstrate ability to read technical diagrams and	-	5	2	3	
	03.	specifications			_		









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			1			
	PC6.	demonstrate basic skills of component handling,		7	3	4
		component fitment, use of basic assembly tools and				
		mechanical fitments (special purpose screws etc)				
	DC7	11 61		10	4	6
	PC7.	demonstrate assembly of the parts/componens		10	4	6
		using proper process, procedures, sequence and				
	PC8.	using right tools		10	5	5
		demonstrate basic quality check procedures				
Post assembly	PC9.	cross check intermediate and end of work		6	3	3
activities		compliance				
	PC10.	secure the workplace by clearing any loose/leftover		6	2	4
		consumables, spare components etc.				
	PC11.	account for all components used and match with the		4	2	2
	FCII.	inventory issues			-	_
						_
	PC12.	follow store compliances in terms of return of		4	1	3
		inventory (components, parts etc.) at the end of				
		work				
	PC13.	document work done and account for all		8	3	5
		components as per company policy				
	TOTAL		100	100	48	52
TEL/N2508	PC1.	demonstrate cafe work practices as nor the ESD			10	10
	PCI.	demonstrate safe work practices as per the ESD		20		
ESD safe procedures and practices		process and protocol		20	10	10
practices	PC2.	demonstrate grounding of all components in work		20	10	10
		area		15	0	7
	PC3.	demonstrate use of ESD tools/equipment (static		15	8	7
		voltage checker, wrist straps, shoe grounders, air				
		ionizers)	100	4.5	-	40
	PC4.	demonstrate safe cleaning & clearing practices for		15	5	10
		removal of non-essential items and equipment				
	205	carrying electrostatic generating potential		4.5	7	0
	PC5.	demonstrate the process of packing/unpacking of		15	7	8
		electronic components in compliance to ESD processes				
	DCC	•		15	8	7
	PC6.	demonstrate safe handling of all semi-finished products after assembly operations (use of ESD free		15	0	/
		trays, conveyor lines)				
		trays, conveyor lines,	100	100	48	F2
	TOTAL		1 100	100	/1.X	52
	TOTAL		100		70	
TEL/N2509	TOTAL PC1.	ensure that work is carried out in accordance with the		10	6	4
		laid down safety, security policies and procedures of	100			4
	PC1.	laid down safety, security policies and procedures of the organization	100	10	6	
		laid down safety, security policies and procedures of the organization ensure that site is assessed for safety and emergency				4
TEL/N2509 Health and Safety	PC1.	laid down safety, security policies and procedures of the organization		10	6	









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PC3.	ensure electrical safety compliances and EMI/EMC hygiene requirements are met as per the guidelines		15	9	6
PC4.	identify and correct any hazards that you can deal with safely, competently and within the limits of your authority		15	10	5
PC5.	report any hazards that you are not competent to deal with to the relevant person in line with organizational procedures and warn other people who may be affected	100	12	7	5
PC6.	follow your organizations's emergency procedures promptly, calmly and efficiently		12	6	6
PC7.	identify and recommend opportunities for improving health, safety, security to the designated person		14	8	6
PC8.	complete any health and safety records legibly and accurately		10	5	5
TOTAL		100	100	57	43