

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR ELECTRONICS INDUSTRY

What are Occupational Standards(OS)?

- Solution 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-FieldTechnician (Networking and Storage)

SECTOR: ELECTRONICS

SUB-SECTOR: IT Hardware

OCCUPATION: After Sales Support

REFERENCE ID: ELE/Q4606

ALIGNED TO: NCO-2004/ NIL

Field Technician: Also called 'Service Technician', the Field Technician provides after sale support services to customers, typically, at their premises.

Brief Job Description: The individual at work is responsible for attending to customer complaints, installing newly purchased products, troubleshooting system problems and, configuring hardware equipment such as servers, storage and other related networking devices.

Personal Attributes: The job requires the individual to have: ability to build interpersonal relationships, customer centric approach and critical thinking. The individual must be willing to travel to client premises in order to attend to calls at different locations.



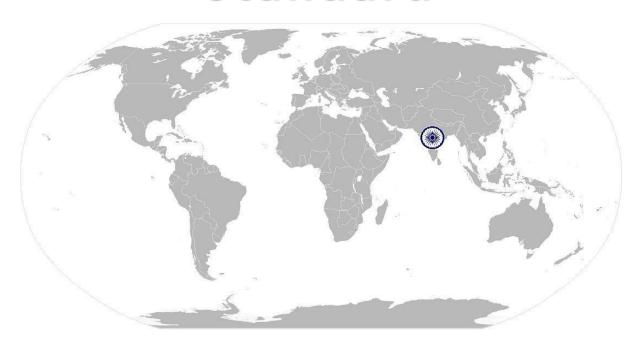
Qualifications Pack Code	ELE/Q4606		
Job Role	Field Technician – Networking and Storage		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Sector	Electronics	Drafted on	22/01/14
Sub-sector	IT Hardware	Last reviewed on	24/03/14
Occupation	After Sales Support	Next review date	24/03/15

Job Role	Field Technician – Networking and Storage Also called 'Service Technician'		
Role Description	Installing and configuring the networking, servers and storage systems, and attending to field calls from client and complaints for system trouble shooting and repairs		
NVEQF/NVQF level	4		
Minimum Educational Qualifications	Diploma		
Maximum Educational Qualifications	Graduate		
Training	Certificate - server and storage equipment management		
Minimum Job Entry Age	18 Years		
Experience	2 years as Field Technician - computing and peripherals		
Applicable National Occupational Standards (NOS)	Compulsory: 1. ELE/N4601 Engage with customer 2. ELE/N4612 Install, configure and setup the networking and storage system 3. ELE/N4613 Troubleshoot and fix equipment 4. ELE/N9909 Coordinate with colleagues and co-workers Optional: Not applicable		
Performance Criteria	As described in the relevant OS units		





National Occupational Standard



Overview

This unit is about interacting with customer and understanding the repair and installation requirements for networking, storage or server equipment.





ELE/N4601	Engage with customers
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Unit Code	ELE/N4601
Unit Title (Task)	Engage with customers
Description	This OS unit is about interacting with and understanding the customers' requirements
Scope	 This unit/ task covers the following: Interact with the customer prior to visit Understand customer's requirements prior to and on visit Suggest possible solutions Complete the documentation Achieve productivity and quality as per company's norms

Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria		
Interacting with	To be competent, the user/ individual must be able to:		
customer	PC1. call the customer based on inputs logged into customer care		
	PC2.	greet the customer and listen to their problem attentively	
	PC3.	check with customer about time for visit, field work and confirm location	
	PC4.	follow etiquette when interacting with customers as per company policy	
		such as politeness and patience	
	PC5.	seek feedback from the customers on completion of work	
Understanding	To be co	ompetent, the user/ individual must be able to:	
customer's	PC6.	understand location requirement for placement of system during and after	
requirements		installation	
	PC7.	seek inputs to understand symptoms for the problem faced	
	PC8.	ask open and close-ended questions to understand the specific problem	
	PC9.	inform customer about the replacement or repair process	
	PC10.	enquire about warranty coverage	
	PC11.	educate about other useful products and annual maintenance contract	
Suggesting solutions	To be competent, the user/ individual must be able to:		
	PC12.	summarise the problem to customer and suggest the possible solutions	
	PC13.	inform customers on whether the module has to be replaced or repaired	
		with reasons	
	PC14.	explain the customers on time taken, repair process and possible costfor the	
		service or inclusion under warranty	
	PC15.	seek customer's approval for further service	
Completing	To be co	ompetent, the user/ individual must be able to:	
documentation	PC16.	provide note to customers about the problem(s), actions taken and the cost	
		associated and retain a copy	
	PC17.	provide appropriate invoice for any purchase of module or parts by customer	
Achieving		ompetent, the user/ individual must be able to:	
productivity and	PC18.	interact with customer in time and within the specified Service Level	





ELE/N4601	Engage with customers
quality	Agreement (SLA) time
	PC19. identify the customer's requirement and available the resources and record
	PC20. accurately assess the problem and suggest appropriate solutions
	PC21. offer the 100% service as per customer's requirements
	PC22. communicate problem effectively in order to secure customer's confidence
	PC23. gauge customer satisfaction with the installation and placement of device
	PC24. Achieve zero repeat or second escalation from customer
	PC25. achieve customer satisfaction on engagement behaviour such as listening to
	complaints or appropriate dressing
	PC26. achieve 100% customer satisfaction and positive feedback
Knowledge and Unders	standing (K)
A. Organizational	The individual on the job needs understand:
Context	KA1. company's policies on: customer care
(Knowledge of the	KA2. company's code of conduct
company /	KA3. organisation culture and typical customer profile
organization and	KA4. company's reporting structure
its processes)	KA5. company's documentation policy
μ. σ.	
B. Technical	The individual on the job needs to know and understand:
Knowledge	KB1. company's products and recurring problems reported
	KB2. how to communicate with customers in order to put them at ease
	KB3. basic electrical and electronics of system hardware
	KB4. hardware maintenance
	KB5. functions of electrical and mechanical parts or modules of the equipment
	KB6. behavioural aspects and etiquette to be followed at customer's premises
	KB7. precautions to be taken while handling field calls and dealing with customers
	KB8. relevant reference sheets, manuals and documents to carry in the field
Skills (S) [Optional]	
A. Core Skills/	Reading and writing skills
Generic Skills	The individual on the job needs to know and understand:
	SA1. how to read product and module serial numbers and interpret details such
	as make, date, availability
	SA2. how to note problems on job sheet and details of workdone
B. Professional Skills	Interpersonal skills
	The individual on the job needs to know and understand:
	SB1. how to develop a rapport with customers
	SB2. how to listen carefully and interpret their requirement
	SB3. how to suggest customer on possible solutions
	Communication skills
	The individual on the job needs to know and understand:
	SB4. how to seek inputs at assess the problems
	SB5. how to put the customer at ease and suggest solutions
	SB6. how to communicate in local language
	SB7. how to educate and inform customer about contractual issues such as
	warranty, cost of service and module replacement





ELE/N4601	Engage with customers		
	SB8. how to educate on precautions to be taken post repairs to avoid recurrence		
	of problem		
	Behavioural skills		
	The individual on the job needs to know and understand:		
	SB9. importance of personal grooming		
	SB10. significance of etiquette such as maintaining the appropriate physical		
	distance with customer during conversation, not entering bedroom without permission		
	SB11. importance of being patient and courteous with all types of customers		
	SB12. being polite and courteous under all circumstances		
	Decision making skills		
	The individual on the job needs to know and understand:		
	SB13. whether interaction of customer with supervisor is necessary or not		
	SB14. when to call customer care and close the call after work is done to		
	customer's satisfaction and documentation is complete		





ELE/N4601

Engage with customers

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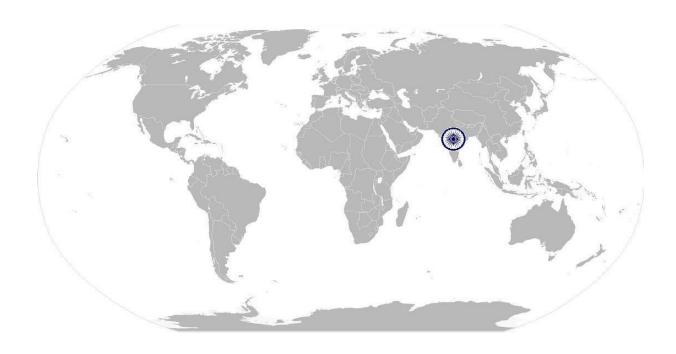
NOS Code	ELE/N4601		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	22/01/14
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14
		Next review date	24/03/15







National Occupational Standard



Overview

This unit is about installing the networking, servers and storage equipment as per the customer's requirement. It includes configuring and setting up the system and ensuring effective system functioning to satisfy the customer.





ELE/N4612	Install, configure and setup the networking and storage system	
Unit Code	ELE /N4602	
Unit Title (Task)	Install, configure and setup the networking and storage system	
Description	This OS unit is about installing the system, configuring and setting it up to make it ready to work on	
Scope	 This unit/ task covers the following: Understand the installation requirement and install the hardware Configure and setup the network, servers and storage system Check system functionality Set up the software Complete the installation task and report Interact with customer Interact with superior Achieve productivity and quality as per company's norms 	

Performance Criteria(PC) w.r.t. t	he Scope
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Element	Performance Criteria		
Installing the	To be competent, the user/ individual must be able to:		
networking, servers	PC1. check site conditions		
and storage devices	PC2. check and ensure any tailor-made system as required by the customer		
	PC3. understand the system design		
	PC4. open the packaging of new product and take out the hardware carefully		
	PC5. connect all the hardware devices such as servers, storage device, networking devices		
	PC6. connect battery, plug in and switch on the system		
	PC7. follow standard operating procedure while handling hardware modules with recommended material handling procedure		
	PC8. follow the standard operating procedure for installation of each model of hardware devices and comply with them		
	PC9. place the system at a location as preferred by customer		
	PC10. understand any temperature requirement for the servers and ensure compliane		
	PC11. install the servers / storage equipment as per standard operating procedure		
	PC12. install the networking device as per standard operating procedure		
	PC13. ensure that appropriate device and model specific procedure is followed as		
	per installation manual		
	PC14. maintain zero-material defect during material handling by following standard		
	operating procedure		
	PC15. carry tools and manuals as per installation manual		
Configuring and	To be competent, the user/ individual must be able to:		
setting up the	PC16. understand the system design requirements of customers and ensure all		
system	hardware equipment are available		
	PC17. understand the type of design architecture to be used in the system		





ELE/N4612	Install, configure and setup the networking and storage system
	integration
	PC18. configure networking device such as router by building a configuration file
	PC19. log and upload the configuration of networking equipment
	PC20. ensure all the computing system are connected with the storage equipment
	PC21. follow the safety procedures while handling and installing the equipment
	PC22. install and configure peripherals as standard operating procedure
	PC23. ensure the placement of all hardware equipment are as per customer
	requirement
Setting up Software	To be competent, the user/ individual must be able to:
	PC24. install the appropriate application software as per the server and storage
	requirement
	PC25. load the appropriate networking device driver and set the device in the
	system
	PC26. install ERP related software package as per client requirement
	PC27. install additional software as per customer requirement
	PC28. ensure that only authorised and licensed version of software is installed
Checking system	To be competent, the user/individual must be able to:
functionality	PC29. connect the networking device, servers or storage and check system
	functions
	PC30. perform unit and integration testing as per design requirement
	PC31. ensure product functions are tested and demo given to the customer after
	hardware, software, and peripheral integration with reference to the
	installation manual
	PC32. ensure that client is satisfied
Completing	To be competent, the user/ individual must be able to:
installation	PC33. measure and meet multipart calls norm against benchmark
	PC34. complete the installation within the agreed Turn Around Time (TAT)
	PC35. complete the call closure / installation in single visit
	PC36. complete the task with the quality benchmark of the company
Interacting with	To be competent, the user/ individual must be able to:
customer	PC37. understand the customer requirement and queries on the hardware
	PC38. educate customer on use of and procedures to be followed in operation of hardware
	PC39. inform customer about warranty and other terms and conditions on the
	hardware devices
	PC40. provide adequate information about the hardware devices, operating
	procedure, maintenance, temperature control, etc., to the customer
	PC41. address the queries and issues raised by the customer on device
	PC42. inform customers clearly about warranty, and product terms and conditions
	PC43. provide customers on all the appropriate documents including invoice
Interacting with	PC44. understand the work requirement from superior, periodically
superior	PC45. report to superior on the work completed
	PC46. escalate the customer issues and problems that cannot be handled at field
	level
	PC47. document the work completed on the company ERP software fortracking
	and future references





ELE/N4612	Install, configure and setup the networking and storage system			
Achieving	To be competent, the user/ individual must be able to:			
productivity and	PC48.	achieve 100% on-time completion of field installation with reference to		
quality		agreed target and time		
	PC49.	submit feedback form on customer satisfaction level with respect to the		
		product installation		
	PC50.	find solutions to customer complaints and queries unresolved in the field		
	PC51.	report work status and prepare documentation as per company standards		
Knowledge and Unders	standing ((K)		
A. Organizational	The indi	vidual on the job needs to know and understand:		
Context	KA1.	company's policies on: incentives, delivery standards, and personnel		
(Knowledge of the		management		
	KA2.	company's sales and after sales support policy		
company /	KA3.	importance of the individual's role in the workflow		
organization and	KA4.	reporting structure		
its processes)	KA5.	company's policy on product's warranty and other terms and conditions		
	KA6.	company's line of business and product portfolio		
	KA7.	client database and their location		
	KA8.	Service Level Agreement (SLA) with client on Turn Around Time and quality		
	10.0.	parameters		
		parameters		
B. Technical	The ind	ividual on the job needs to know and understand:		
Knowledge	KB1.	basic electronics involved in the hardware		
	KB2.	different types of IT hardware products and functionalities		
	KB3.	functions of electrical and mechanical parts/ modules		
	KB4.	typical customer profile		
	KB5.	company's portfolio of products and that of competitors		
	KB6.	installation procedures given in the manuals		
	KB7.	different types of servers, storage, networking devices offered by the		
	company			
	KB8.	different types of servers and storage hardware equipment and their		
		standard installation procedure		
	KB9.	specification and the procedures to be followed for configuration and setting		
		up the server system		
	KB10.	design architecture for system configuration		
	KB10.	networking of devices		
	KB11.	different types of networking devices, their functionality		
	KB12.	operate and load networking devices, their functionality		
	KB13.	how to operate the system and other hardware peripherals		
		, , ,		
	KB15.	assembling and dismantling of components / modules in hardware equipment		
	KB16.	use of hardware equipment manufacturer recommended tools		
	KB17.	computer operation and use of Microsoft word, excel fordocumentation		
		and reporting		
	KB18.	quality standards to be followed		
		quanty standards to be renewed		





ELE/N4612	Install, configure and setup the networking and storage system		
Skills (S) [Optional]			
A. Core Skills/	Reading and writing skills		
Generic Skills	The user/individual on the job needs to know and understand how:		
	SA1. to read job sheet and/or complaints received by customer care		
	SA2. to document the completed work		
	SA3. to note customer complaints solution provided		
	SA4. to read the standard operating procedures for different equipment		
	Teamwork and multitasking		
	The user/individual on the job needs to know and understand how:		
	SA5. to share work load as required		
	SA6. to achieve the targets given on service and sales		
B. Professional Skills	Hardware and Software operation skills		
	The user/individual on the job needs to know and understand how to:		
	SB1. operate computer and laptop		
	SB2. operate the peripheral hardware		
	SB3. operate the different software appropriate to server system		
	SB4. configure different settings and installations of hardware and software as		
	per customer requirement		
	Networking, Servers and storage hardware related skills		
	The user/individual on the job needs to know and understand how:		
	SB5. to connect all networking devices as per system requirement		
	SB6. networking, its purpose and functionalities to assemble and set up server		
	and storage system		
	SB7. different hardware modules in the servers and storage equipment		
	SB8. to identify basic electronic components and know their functions		
	Using tools and machines		
	The user/individual on the job needs to know and understand how:		
	SB9. to operate electronic screw drivers for installation of equipment		
	SB10. to use other specific devices for installation of peripherals		
	Reflective thinking		
	The user/individual on the job needs to know and understand how:		
	SB11. to improve work processes		
	SB12. to reduce repetition of errors		
	Critical thinking		
	The user/individual on the job needs to know and understand how:		
	SB13. to spot process disruptions and delays		
	SB14. to report on any customer concerns to superiors without delay		





ELE/N4612

Install, configure and setup the networking and storage system

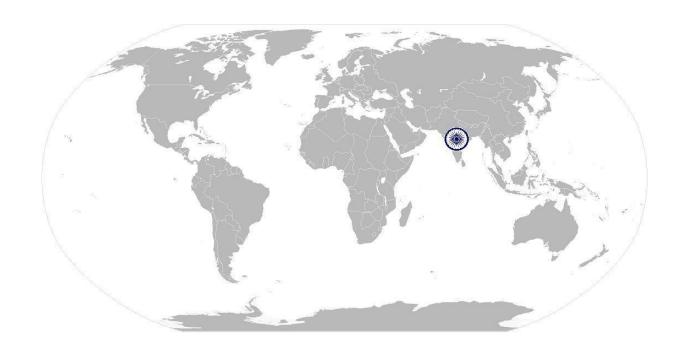
NOS Version Control

NOS Code	ELE/N4612		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	22/01/14
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14
		Next review date	24/03/15





National Occupational Standard



Overview

This unit is about troubleshooting hardware related problems in networking, servers and storage equipment by diagnosing and replacing faulty module at client's premises.





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Unit Code	ELE /N4613		
Unit Title (Task)	Troubleshoot and replace faulty module in the equipment		
Description	This OS unit is about diagnosing the problem and troubleshooting problems in the networking and storage system		
Scope	 This unit/ task covers the following: Receive and understand the customer complaint registered at customercare Identify system problems on field visit Replace faulty module after diagnosis Coordinate with Remote Technical Helpdesk for assistance Interact with customer Report to Superior 		

Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria			
Understanding	To be competent, the user/ individual must be able to:			
customer complaint	PC1. PC2.	listen carefully to concerns registered by customer at customer care interact with customer on telephone for better understanding of concern		
		before the visit		
	PC3.	commence field trip based on type of complaint		
	PC4.	understand the Turn Around Time (TAT) as per the Service Level Agreemen (SLA)		
	PC5.	carry the troubleshooting instructions sheets		
	PC6.	understand the warranty, terms and conditions with relation to the product		
	PC7.	identify the type of problem and carry relevant tools and equipment based customer complaint and standard operating procedure		
	PC8.	assess whether replacement or repair of module may be required		
	PC9.	ensure timely reporting and maintain punctuality		
	PC10.	carry only 100% approved and verified field replaceable parts for repairing or		
		replacing		
	PC11.	decide on whether it can be repaired in field or at company's test centre		
Identifying system-	To be co	To be competent, the user/ individual must be able to:		
level problem on	PC12.	understand the frequently encountered problems in the storage system and		
field		solution for them		
	PC13.	understand the problems experienced by the customer		
	PC14. conduct root-cause analysis and identify the likely problem area			
	PC15.	diagnose the issue in networking device		
	PC16.	confirm all the issues in the storage by conducting standard diagnostics		
		procedure		
	PC17. coordinate with remote technical team to diagnose and confirm the			
		faced in the storage system		
	PC18.	disassemble and check each part of networking, servers / storage system to isolate the failed module		





ELE/N4613	Troubleshoot and fix equipment		
	follow standard operating procedure while handling hardware modules such		
	as handling PCB with ESD standards		
	PC20. make decision on whether the part can be replaced or component should be		
	repaired		
	PC21. identify the solution design where the module to be replaced or software to		
	be installed or updated		
	PC22. decide on whether to replace module or send to repair centre		
Replacing faulty	To be competent, the user/ individual must be able to:		
module	PC23. if the module has to be replaced, disassemble the system, remove and		
	replace and re-assemble the system		
	PC24. if soldering needs to be done, use manual hand soldering iron unit to solder		
	the components or parts		
	PC25. if there is any operating system error, software related issues, reinstall the		
	software or fix the issues		
	PC26. fix the common problems faced with peripherals and networking devices		
	PC27. escalate the problems which cannot be addressed at field level to the		
	superior for servicing at company's repair stations		
	PC28. coordinate with remote technical helpdesk to seek technical assistance in		
	the field		
	PC29. explain clearly the symptoms in the system to the remote technical helpdesk		
	and perform the work as per their instructions		
	PC30. perform diagnosis and troubleshooting as per remote technical helpdesk		
	instructions		
	PC31. follow appropriate safety procedures while handling tools such as soldering iron		
	PC32. ensure system function is tested after new hardware modules or software is		
	installed		
Completing repair	To be competent, the user/ individual must be able to:		
completing repair	PC33. understand clearly the requirement before field visit		
	PC34. report percentage of call closure in multiple visits against benchmark		
	PC35. ensure no sub-standard or unverified parts are used in replacing		
	PC36. attend to the client location as per the time decided in the service level		
	agreement with the client		
	PC37. complete the function within the agreed Turn Around Time (TAT) and as per		
	the Service level agreement with the client		
	PC38. complete the call closure in single visit		
	PC39. complete the task with the quality benchmark of the company		
	PC40. meet monthly or daily target given		
Interacting with	To be competent, the user/ individual must be able to:		
customer	PC41. inform customer about the problem, action to be taken		
	PC42. inform customer on adequate information about hardware device or		
	software		
	PC43. instruct customer on use of and procedures to be followed for operatingthe		
	system or hardware		
	PC44. confirm acceptance before replacing module or sending for repairs to		
	company		
	PC45. inform customer about warranty and other terms and conditions on the		





ELE/N4613	Troubleshoot and fix equipment		
	replaced or repaired hardware devices		
	PC46. provide relevant documents to customers on completion of work		
-	PC47. achieve 100% satisfaction with customer on post sales service		
Reporting to	To be competent, the user/ individual must be able to:		
superior	PC48. receive the work order from the superior or customer care about the complaint registered		
	PC49. report on the work load and completion status		
	PC50. find solutions to customer complaints and queries that are unresolved in the		
	field		
	PC51. escalate the problems that cannot be resolved at field level with reason		
	PC52. report 100% on time completion of field repair or hardware replacement		
	with reference to agreed target and time or reasons for not meeting target		
	PC53. submit the feedback form on customer satisfaction level with respect to the		
	product repair		
	PC54. accurately report work status through proper documentation as per		
	company's standards		
	PC55. create knowledge bank on the complex repairs made through documentation		
Knowledge and Unders			
A. Organizational	The individual on the job needs to know and understand:		
Context	KA1. company's policies on: incentives, delivery standards, and personnel		
(Knowledge of the	management KA2. company's sales and after sales support policy		
company /	KA3. importance of the individual's role in the workflow		
organization and	KA4. reporting structure		
its processes)	KA5. company's policy on product's warranty and other terms and conditions		
	KA6. company's line of business and product portfolio		
	KA7. client database and their location		
	KA8. Service Level Agreement (SLA) with client on Turn Around Time and quality		
	parameters		
B. Technical	The individual on the job needs to know and understand:		
Knowledge	KB1. company's portfolio of products		
	KB2. different types of IT hardware products and functionalities KB3.		
	different electrical and mechanical modules in the product KB4.		
	basic electronics of the hardware KB5. different models of devices and their repair procedures		
	KB5. different models of devices and their repair procedures KB6. standard operating procedure for disassembling and re-assembling of		
	hardware equipment		
	KB7. procedures to be followed for trouble shooting and standards to follow		
	KB8. voltage and power requirement for different hardwaredevices		
	KB9. servers, storage and network devices		
	KB10. ERP software application and its installation procedure		
	KB11. frequently occurring issues in storage and server device and measures to be		
	taken		
	KB12. tools required for repair such as soldering iron, multimeter		
	KB13. controls of different peripherals		





ELE/N4613	Troubleshoot and fix equipment		
	KB14. all safety procedures to follow		
	KB15. quality standards to be followed		
	6. Electrostatic Discharge (ESD) and measures to be taken		
Skills (S) [Optional]			
A. Core Skills/	Reading and writing skills		
Generic Skills	The user/individual on the job needs to know and understand how:		
	SA1. to read job sheet and/or complaints registered at customer care		
	2. to document the completed work		
	SA3. to note customer complaints and solution provided		
	SA4. to read the standard operating procedure manual for different equipment		
	Teamwork and multitasking		
	The user/individual on the job needs to know and understand how:		
	SA5. to share work load as required		
	SA6. to achieve the target		
B. Professional Skills	Hardware operating skills		
D. I Toressional Skins			
	The user/individual on the job needs to know and understand how to:		
	SB1. operate computer and laptop		
	SB2. operate the peripheral hardware equipment		
	SB3. operate the different software		
	SB4. configure different settings and installations of hardware and software as		
	per customer requirement		
	Networking, servers and storage hardware equipment related skills		
	The user/individual on the job needs to know and understand:		
	SB5. different modules and their functions in storage systems		
	SB6. different types of networking devices and their functionalities		
	SB7. how to diagnose the issues in servers and storage hardware modules		
	SB8. how to diagnose the issues in networking device		
	SB9. how to assemble modules in networking, servers and storagesystem		
	Heine to ale and machines		
	Using tools and machines The wear/individual on the ich poods to know and understand how to		
	The user/individual on the job needs to know and understand how to: SB10. operate electronic screw drivers for disassembling and assembling of		
	SB10. operate electronic screw drivers for disassembling and assembling of hardware equipments		
	SB11. use other specific devices for repairs such as soldering iron, multimeter,		
	POST cards		
	POST Carus		
	Reflective thinking		
	The user/individual on the job needs to know and understand how to:		
	SB12. improve work processes		
	SB13. reduce errors on field and repeat trips		





ELE/114013	Critical thinking		
	The user/individual on the job needs to know and understand how to: SB14. spot process disruptions and delays SB15. report on any issues raised by customers to superiors without delay		





ELE/N4613

Troubleshoot and fix equipment

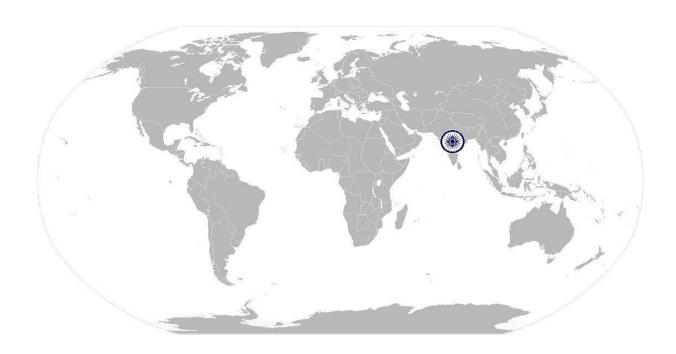
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Industry	Electronics	Drafted on	22/01/14
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14
		Next review date	24/03/15





National Occupational Standard



Overview

This unit is about the individual's level of communication with colleagues and other departments within the organisation. It determines the ability to work as a team member to achieve the required deliverables on schedule.





EL	E/N9909	Coordinate with colleagues and co-workers
	Unit Code	ELE/N9909
5	Unit Title (Task)	Coordinate with colleagues
a In	Description	This OS unit is about communicating with colleagues and seniors in order to achieve smooth work flow
National Occupational Standard	Scope	 This unit/ task covers the following: Interact with supervisor or superior Coordinate with colleagues
ਰ ਰ	Performance Criteria(Pe	C) w.r.t. the Scope
5	Element	Performance Criteria
	Interacting with supervisor	To be competent, the user/ individual must be able to: PC1. understand and assess work requirements PC2. understand the targets and incentives PC3. understand new operating procedures and constraints PC4. report problems in the field PC5. resolve personnel issues PC6. receive feedback on work standards and customersatisfaction PC7. communicate any potential hazards at a particular location PC8. meet given targets PC9. deliver work of expected quality despite constraints PC10. receive positive feedback on behaviour and attitude shown during interaction
	Coordinating with colleagues	To be competent, the user/ individual must be able to: PC11. interact with colleagues from different functions and understand the nature of their work PC12. receive spares from tool room or stores; deposit faulty modules and tools to stores PC13. pass on customer complaints to colleagues in a respective geographical area PC14. assist colleagues with resolving field problems, conflicts and achieve smooth workflow PC15. follow the company policy during cross functional interaction
	Knowledge and Unders	
	A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. company's policies on: incentives, delivery standards, and personnel management KA2. importance of the individual's role in the workflow KA3. reporting structure





ELE/N9909	Coordinate with colleagues and co-workers
B. Technical	The individual on the job needs to know and understand:
Knowledge	KB1. how to communicate effectively
	KB2. how to build team coordination
Skills (S) [Optional]	
A. Core Skills/	Teamwork and multitasking
Generic Skills	The individual on the job needs to know and understand how:
	SA1. to deliver product to next work process on time
B. Professional Skills	Decision making
	The individual on the job needs to know and understand:
	SB1. how to report potential areas of disruptions to work process
	SB2. when to report to supervisor and when to deal with a colleague depending
	on the type of concern
	Reflective thinking
	The individual on the job needs to know and understand:
	SB3. how to improve work process
	Critical thinking
	The individual on the job needs to know and understand:
	SB4. how to spot process disruptions and delays





ELE/N9909

Coordinate with colleagues and co-workers

NOS Version Control

NOS Code	ELE/N9909			
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0	
Industry	Electronics	Drafted on	22/01/14	
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14	
		Next review date	24/03/15	



Keywords /Terms	Description
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.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or an 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.
Sub-function	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.
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 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.
National Occupational Standards (OS)	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	Knowledge and understanding 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
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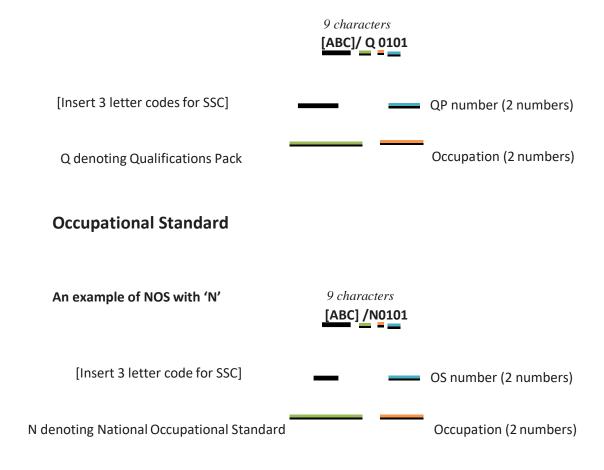
	specific designated responsibilities.
Core Skills/ Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Keywords /Terms	Description
NOS	National Occupational Standard(s)
NVQF	National Vocational Qualifications Framework
NSQF	National Qualifications Framework
NVEQF	National Vocational Education Qualifications Framework
QP	Qualifications Pack



Annexure

Nomenclature for QP and NOS

Qualifications Pack





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

Sub-sector	Range of Occupation numbers
Passive Components	01 - 10
Semiconductors	11 - 20
PCB Manufacturing	21 - 30
Consumer Electronics	31 - 40
IT Hardware	41 - 50
PCB Assembly	51 - 55
Solar Electronics	56 - 60
Strategic Electronics	61 - 65
Automotive Electronics	66 - 70
Industrial Electronics	71 - 75
Medical Electronics	76 - 80
Communication Electronics	81 - 85
PCB Design	86 - 90
LED	91 - 95

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



Assessment Criteria for Field Technician - Network and Storage	
Job Role	Field Technician – Network and Storage
Qualification Pack	ELE/ Q4606 version1.0
Sector Skill Council	Electronic

Guidelines for Assessment:

- 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. Individual assessment agencies will create unique evaulations for skill practical for every student at each examination/training centerbased on this criteria
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
- 6. 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.



	rks
1.ELE/N4601 Engage with customers PC1. call the customer based on inputs logged into customer care PC2. greet the customer and listen to their problem attentively PC3. check with customer about time for visit, field work and confirm location PC4. follow etiquette when interacting with customers as per company policy such as politeness and patience PC5. seek feedback from the customers on completion of work PC6. understand location requirement for placement of system during and after installation PC7. seek inputs to understand symptoms for the problem faced PC8. ask open and close-ended questions to understand the specific problem PC9. inform customer about the replacement or repair process PC10. enquire about warranty coverage PC11. educate about other useful products and annual maintenance contract PC12. summarise the problem to customer and suggest the possible solutions PC13. inform customers on whether the module has to be replaced or repaired with reasons	ocation
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PC6. understand location requirement for placement of system during and after installation PC7. seek inputs to understand symptoms for the problem faced PC8. ask open and close-ended questions to understand the specific problem PC9. inform customer about the replacement or repair process PC10. enquire about warranty coverage PC11. educate about other useful products and annual maintenance contract PC12. summarise the problem to customer and suggest the possible solutions PC13. inform customers on whether the module has to be replaced or repaired with reasons	4
after installation PC7. seek inputs to understand symptoms for the problem faced PC8. ask open and close-ended questions to understand the specific problem PC9. inform customer about the replacement or repair process PC10. enquire about warranty coverage PC11. educate about other useful products and annual maintenance contract PC12. summarise the problem to customer and suggest the possible solutions PC13. inform customers on whether the module has to be replaced or repaired with reasons	2
PC8. ask open and close-ended questions to understand the specific problem PC9. inform customer about the replacement or repair process PC10. enquire about warranty coverage PC11. educate about other useful products and annual maintenance contract PC12. summarise the problem to customer and suggest the possible solutions PC13. inform customers on whether the module has to be replaced or repaired with reasons	1
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PC10. enquire about warranty coverage PC11. educate about other useful products and annual maintenance contract PC12. summarise the problem to customer and suggest the possible solutions PC13. inform customers on whether the module has to be replaced or repaired with reasons	2
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PC12. summarise the problem to customer and suggest the possible solutions 5 2 PC13. inform customers on whether the module has to be replaced or repaired with reasons	2
PC13. inform customers on whether the module has to be replaced or repaired with reasons	2
repaired with reasons	3
	3
for the service or inclusion under warranty	3
PC15. seek customer's approval for further service 5 2	3
PC16. provide note to customers about the problem(s), actions taken and the cost associated and retain a copy	3
PC17. provide appropriate invoice for any purchase of module or parts by customer 5 2	3
PC18. interact with customer in time and within the specified Service Level Agreement (SLA) time	2
PC19. identify the customer's requirement and available the resources and record	2
PC20. accurately assess the problem and suggest appropriate solutions 3 1	2
PC21. offer the 100% service as per customer's requirements 3 1	2
PC22. communicate problem effectively in order to secure customer's description of the confidence and the confidence described by the confiden	2
PC23. gauge customer satisfaction with the installation and placement of device	2
PC24. Achieve zero repeat or second escalation from customer 4 1	3
PC25. achieve customer satisfaction on engagement behaviour such as listening to complaints or appropriate dressing	2



	PC26. achieve 100% customer satisfaction and positive feedback		3	1	2
		TOTA L	100	40	60
2. ELE/N4612	PC1. check site conditions	100	1	0	1
Install,	PC2. check and ensure any tailor-made system as required by the customer	1	1	0	1
configure and	PC3. understand the system design	-	1	1	0
setup the	PC4. open the packaging of new product and take out the hardware carefully	-	1	0	1
networking and storage system	PC5. connect all the hardware devices such as servers, storage device, networking devices		1	0	1
system	PC6. connect battery, plug in and switch on the system		1	0	1
	PC7. follow standard operating procedure while handling hardware modules with recommended material handling procedure		1	1	0
	PC8. follow the standard operating procedure for installation of each model of hardware devices and comply with them		1	1	0
	PC9. place the system at a location as preferred by customer		1	0	1
	PC10. understand any temperature requirement for the servers and ensure compliane		1	1	0
	PC11. install the servers / storage equipment as per standard operating procedure		1	0	1
	PC12. install the networking device as per standard operating procedure		1	0	1
	PC13. ensure that appropriate device and model specific procedure is followed as per installation manual		1	0	1
	PC14. maintain zero-material defect during material handling by following standard operating procedure		1	0	1
	PC15. carry tools and manuals as per installation manual		1	1	0
	PC16. understand the system design requirements of customers and ensure all hardware equipment are available		2	1	1
	PC17. understand the type of design architecture to be used in the system integration		2	1	1
	PC18. configure networking device such as router by building a configuration file		2	1	1
	PC19. log and upload the configuration of networking equipment		2	1	1
	PC20. ensure all the computing system are connected with the storage equipment		2	1	1
	PC21. follow the safety procedures while handling and installing the equipment		2	1	1
	PC22. install and configure peripherals as standard operating procedure		2	1	1
	PC23. ensure the placement of all hardware equipment are as per customer requirement		2	1	1
	PC24. install the appropriate application software as per the server and storage requirement		3	1	2
	PC25. load the appropriate networking device driver and set the device in the system		3	1	2



Qualifications Pack For Field Technician – Networking and Storage PC26. install ERP related software package as per client requirement PC27. install additional software as per customer requirement PC28. ensure that only authorised and licensed version of software is installed PC29. connect the networking device, servers or storage and check system functions PC30. perform unit and integration testing as per design requirement PC31. ensure product functions are tested and demo given to the customer after hardware, software, and peripheral integration with reference to the installation manual PC32, ensure that client is satisfied PC33. measure and meet multipart calls norm against benchmark PC34. complete the installation within the agreed Turn Around Time (TAT) PC35. complete the call closure / installation in single visit PC36. complete the task with the quality benchmark of the company PC37. understand the customer requirement and gueries on the hardware PC38. educate customer on use of and procedures to be followed in operation of hardware PC39. inform customer about warranty and other terms and conditions on the hardware devices PC40. provide adequate information about the hardware devices, operating procedure, maintenance, temperature control, etc., to the customer PC41. address the queries and issues raised by the customer on device PC42. inform customers clearly about warranty, and product terms and PC43. provide customers on all the appropriate documents including invoice PC44. understand the work requirement from superior, periodically PC45. report to superior on the work completed PC46. escalate the customer issues and problems that cannot be handled at field level PC47. document the work completed on the company ERP software for tracking and future references PC48. achieve 100% on-time completion of field installation with reference to agreed target and time PC49. submit feedback form on customer satisfaction level with respect to the product installation PC50. find solutions to customer complaints and gueries unresolved in the PC51. report work status and prepare documentation as per company standards

PC1. listen carefully to concerns registered by customer at customer care



Troubleshoot and fix equipment PC3. commence field trip based on type of complaint PC4. understand the Turn Around Time (TAT) as per the Service Level Agreement (SLA) PC5. carry the troubleshooting instructions sheets PC6. understand the warranty, terms and conditions with relation to the product PC7. identify the type of problem and carry relevant tools and equipment based customer complaint and standard operating procedure PC8. assess whether replacement or repair of module may be required PC9. ensure timely reporting and maintain punctuality PC10. carry only 100% approved and verified field replaceable parts for repairing or replacing	1 1 1 1 1 1 1 1
and fix equipment PC3. commence field trip based on type of complaint PC4. understand the Turn Around Time (TAT) as per the Service Level Agreement (SLA) PC5. carry the troubleshooting instructions sheets PC6. understand the warranty, terms and conditions with relation to the product PC7. identify the type of problem and carry relevant tools and equipment based customer complaint and standard operating procedure PC8. assess whether replacement or repair of module may be required PC9. ensure timely reporting and maintain punctuality PC10. carry only 100% approved and verified field replaceable parts for repairing or replacing	1 1 1 1 1 1 1
PC4. understand the Turn Around Time (TAT) as per the Service Level Agreement (SLA) PC5. carry the troubleshooting instructions sheets PC6. understand the warranty, terms and conditions with relation to the product PC7. identify the type of problem and carry relevant tools and equipment based customer complaint and standard operating procedure PC8. assess whether replacement or repair of module may be required PC9. ensure timely reporting and maintain punctuality PC10. carry only 100% approved and verified field replaceable parts for repairing or replacing	1 1 1 1 1 1 1
Agreement (SLA) PC5. carry the troubleshooting instructions sheets PC6. understand the warranty, terms and conditions with relation to the product PC7. identify the type of problem and carry relevant tools and equipment based customer complaint and standard operating procedure PC8. assess whether replacement or repair of module may be required PC9. ensure timely reporting and maintain punctuality PC10. carry only 100% approved and verified field replaceable parts for repairing or replacing	1 1 1 1 1 1 1
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PC9. ensure timely reporting and maintain punctuality PC10. carry only 100% approved and verified field replaceable parts for repairing or replacing	1 1 1 1
PC10. carry only 100% approved and verified field replaceable parts for repairing or replacing	1 1 1
PC10. carry only 100% approved and verified field replaceable parts for repairing or replacing	1 1 1
	1
PC11. decide on whether it can be repaired in field or at company's test centre	1
PC12. understand the frequently encountered problems in the storage system and solution for them	_
PC13. understand the problems experienced by the customer 2 1	+
PC14. conduct root-cause analysis and identify the likely problem area 2 1	1
PC15. diagnose the issue in networking device 2 1	1
PC16. confirm all the issues in the storage by conducting standard diagnostics procedure 2 1	1
PC17. coordinate with remote technical team to diagnose and confirm the issues faced in the storage system	1
PC18. disassemble and check each part of networking, servers / storage system to isolate the failed module 2 1	1
PC19. follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards	1
PC20. make decision on whether the part can be replaced or component should be repaired 1 0	1
PC21. identify the solution design where the module to be replaced or software to be installed or updated	1
PC22. decide on whether to replace module or send to repair centre 1 0	1
PC23. if the module has to be replaced, disassemble the system, remove and replace and re-assemble the system	1
PC24. if soldering needs to be done, use manual hand soldering iron unit to solder the components or parts	1
PC25. if there is any operating system error, software related issues, reinstall the software or fix the issues	1
PC26. fix the common problems faced with peripherals and networking devices	1
PC27. escalate the problems which cannot be addressed at field level to the superior for servicing at company's repair stations	1



Qualifications Pack For Field Technician – Netwo	orkina and Storaae
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Qualifications ruck for field reclinician – Networking and Storage			
PC28. coordinate with remote technical helpdesk to seek technical assistance in the field	2	1	1
PC29. explain clearly the symptoms in the system to the remote technical helpdesk and perform the work as per their instructions	2	1	1
PC30. perform diagnosis and troubleshooting as per remote technical helpdesk instructions	2	1	1
PC31. follow appropriate safety procedures while handling tools such as soldering iron	2	1	1
PC32. ensure system function is tested after new hardware modules or software is installed	2	1	1
PC33. understand clearly the requirement before field visit	2	1	1
PC34. report percentage of call closure in multiple visits against benchmark	2	1	1
PC35. ensure no sub-standard or unverified parts are used in replacing	2	1	1
PC36. attend to the client location as per the time decided in the service level agreement with the client	2	1	1
PC37. complete the function within the agreed Turn Around Time (TAT) and as per the Service level agreement with the client	2	1	1
PC38. complete the call closure in single visit	2	1	1
PC39. complete the task with the quality benchmark of the company	2	0	2
PC40. meet monthly or daily target given	1	0	1
PC41. inform customer about the problem, action to be taken	2	1	1
PC42. inform customer on adequate information about hardware device or software	2	1	1
PC43. instruct customer on use of and procedures to be followed for operating the system or hardware	2	1	1
PC44. confirm acceptance before replacing module or sending for repairs to company	2	1	1
PC45. inform customer about warranty and other terms and conditions on the replaced or repaired hardware devices	2	1	1
PC46. provide relevant documents to customers on completion of work	2	1	1
PC47. achieve 100% satisfaction with customer on post sales service	2	0	2
PC48. receive the work order from the superior or customer care about the complaint registered	1	0	1
PC49. report on the work load and completion status	2	0	2
PC50. find solutions to customer complaints and queries that are unresolved in the field	2	0	2
PC51. escalate the problems that cannot be resolved at field level with reason	2	0	2
PC52. report 100% on time completion of field repair or hardware replacement with reference to agreed target and time or reasons for not meeting target	1	0	1
 PC53. submit the feedback form on customer satisfaction level with respect to the product repair	 1	0	1



TOTA L Qualifications Pack For Field Technician – Networking and Storage PC54. accurately report work status through proper documentation as per company's standards PC55. create knowledge bank on the complex repairs made through documentation **TOTA** L 4. ELE/N9909 PC1. understand and assess work requirements Coordinate PC2. understand the targets and incentives with PC3. understand new operating procedures and constraints colleagues and PC4. report problems in the field co-workers PC5. resolve personnel issues PC6. receive feedback on work standards and customer satisfaction PC7. communicate any potential hazards at a particular location PC8. meet given targets PC9. deliver work of expected quality despite constraints PC10. receive positive feedback on behaviour and attitude shown during interaction PC11. interact with colleagues from different functions and understand the nature of their work PC12. receive spares from tool room or stores; deposit faulty modules and PC13. pass on customer complaints to colleagues in a respective geographical

PC14. assist colleagues with resolving field problems, conflicts and achieve

PC15. follow the company policy during cross functional interaction

smooth workflow