



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
- 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-Field Technician (Computing and Peripherals)

SECTOR: ELECTRONICS

SUB-SECTOR: IT Hardware

OCCUPATION: After Sales Support

REFERENCE ID: ELE/Q4601

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 peripherals such as printers, scanners and network devices.

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







G&J/ N 0111

Draw wire from gold bar





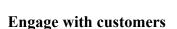


Qualifications Pack Code	ELE/Q4601			
Job Role	Field Technician – Computing and Peripherals			
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0	
Sector	Electronics	Drafted on	17/11/13	
Sub-sector	IT Hardware	Last reviewed on	24/12/13	
Occupation	After Sales Support	Next review date	23/12/14	

Job Role	Field Technician – Computing and Peripherals Also called 'Service Technician'		
Role Description	Installing the system and configuring the peripherals, and attending to field calls from customer and complaints for system trouble shooting and repairs		
NVEQF/NVQF level Minimum Educational Qualifications Maximum Educational Qualifications	12th Standard Passed ITI, Diploma, BSc Computer Science, B.E. (Electrical, Electronics & Communications, Computer Science, IT and related)		
Training	Not Applicable		
Experience	1 year in computer hardware maintenance for 12 th passed		
Applicable National Occupational Standards (NOS)	Compulsory: 1. ELE/N4601 Engage with customer 2. ELE/N4602 Install, configure and setup the system 3. ELE/N4603 Troubleshoot and replace faulty module 4. ELE/N9909 Coordinate with colleagues and co-workers Optional: Not applicable		
Performance Criteria	As described in the relevant OS units		

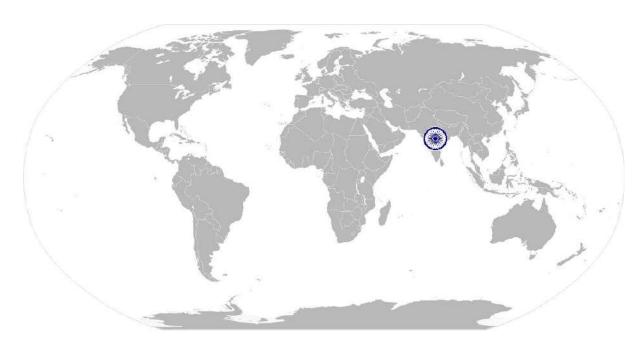








National Occupational Standard



Overview

This unit is about technician interacting with and understanding the customers' repair requirements.







Engage with customers

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 on visit or prior to 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 competent, 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 cost for the service or inclusion under warranty		
	PC15. seek customer's approval for further service		
Completing	To be competent, 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		







ELE/N4601		Engage with customers
	DC17	and the community to the few and

	PC17. provide appropriate invoice for any purchase of module or parts by customer			
Achieving	To be competent, the user/ individual must be able to:			
productivity and	PC18. interact with customer on time within the specified Service Level Agreement			
quality	(SLA) time			
	PC19. identify the customer's requirement and identify the resources and record			
	PC20. accurately assess the problem and suggest appropriate solutions			
	PC21. offer the right 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. maintain no 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				
A. Organizational	The individual on the job needs understand: KA1. company's policies on: customer care			
Context	, , ,			
(Knowledge of the	KA2. company's code of conduct KA3. organisation culture and typical customer profile			
company /	KA3. organisation culture and typical customer profile KA4. company's reporting structure			
organization and	. ,			
its processes)	KA5. company's documentation policy			
,				
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 electronics of system hardware			
	KB4. hardware maintenance			
	KB5. functions of electrical and mechanical parts/ modules			
	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)				
A. Core Skills/	Reading and writing skills			
Generic Skills	The individual on the job needs to know and understand:			
Generic Jamis	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 work done			
D. D. C. J. LCL	Lutamana and akilla			
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			
	Descriptions and suppose suppo			







ELE/N4601 Engage with customers

ELE/N4601		Engage with customers	
	Comm	unication skills	
	The inc	dividual 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	
	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	
	Decisio	on making skills	
	SB13.	decide on the spot on 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	







Engage with customers

NOS Code	ELE/N4601			
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0	
Industry	Electronics	Drafted on	17/11/13	
Industry Sub-sector	IT Hardware	Last reviewed on	24/12/13	
		Next review date	23/12/14	

NOS Version Control

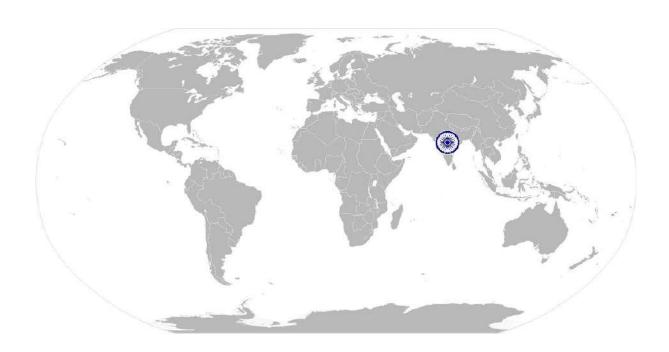






Instan, configure and setup naraware system

National Occupational Standard



Overview

This unit is about installing the system and configuring peripherals such as the printers, scanners, and network devices.







ELE/N4602	Install.	configure	and setup	hardware system
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Unit Code	ELE /N4602	
Unit Title (Task)	Install, configure and setup hardware system	
Description	This OS unit is about installing the system, configuring the and setting 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 install the peripherals 	
	 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. the Scope

Element	Performance Criteria		
Installing hardware	To be competent, the user/ individual must be able to:		
	PC1. check site conditions		
	PC2. check and ensure any tailor-made programs required by the customer		
	PC3. open the packaging of new product and take out the hardware carefully		
	PC4. connect all the hardware devices such as CPU, Monitor, Keyboard, Mouse, as per the specifications of the system		
	PC5. in case of laptop, connect battery, plug in and switch on the system		
	PC6. follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards		
	PC7. follow the standard operating procedure for installation of each model of hardware devices and comply with them		
	PC8. place the system at a location as preferred by customer		
	PC9. install the hardware / devices as per standard operating procedure		
	PC10. ensure that appropriate device and model specific procedure is followed as per installation manual		
	PC11. maintain zero-material defect during material handling by following standard operating procedure		
	PC12. carry tools and manuals as per installation manual		
Configuring and	To be competent, the user/ individual must be able to:		
setting up	PC13. understand the peripheral requirements of customers and ensure all		
peripherals	hardware are available		







ELE/N4602	Install, configure and setup hardware system		
	PC14. understand the placement requirement of peripheral equipment such as		
	printers, modems, etc., as per customer preferences		
	PC15. connect the peripheral devices with the system as per the standard procedure		
	followed for each equipment		
	PC16. install the peripherals, connect the appropriate peripheral such as printer,		
	scanner to the system and run the installed program for set up		
	PC17. follow the safety procedures while handling and installing the equipment		
	PC18. install and configure peripherals as standard operating procedure		
	PC19. ensure the placement of peripherals are as per customer requirement		
Setting up Software	To be competent, the user/ individual must be able to:		
	PC20. install the operating system and appropriate application software as per		
	customer preference		
	PC21. install additional software as per standard customer requirement		
	PC22.		
Checking system	To be competent, the user/ individual must be able to:		
functionality	PC23. switch on the system and peripherals and check for effective functioning		
	PC24. check and ensure the functionality of system, peripherals and applications		
	PC25. ensure product functions are tested and demo given to the customer after		
	hardware, software, operating system and peripheral integration with		
	reference to the installation manual		
	PC26. ensure that customer is satisfied		
Completing	To be competent, the user/ individual must be able to:		
installation	PC27. measure and meet multipart calls norm against benchmark		
	PC28. complete the installation within the agreed Turn Around Time (TAT)		
	PC29. complete the call closure in single visit		
	PC30. complete the task with the quality benchmark of the company		
Interacting with	To be competent, the user/ individual must be able to:		
customer	PC31. understand the customer requirement and queries on the hardware		
	PC32. educate customer on use of and procedures to be followed in operation of		
	hardware		
	PC33. inform customer about warranty and other terms and conditions on the		
	hardware devices		
	PC34. inform about cost estimates for any other new installations		
	PC35. provide adequate information about the hardware devices, operating		
	procedure, maintenance, etc., to the customer		
	PC36. address the queries and issues raised by the customer on device		
	PC37. inform customers clearly about warranty, and product terms and conditions		
Last a manation as a state	PC38. provide customers on all the appropriate documents including invoice		
Interacting with	PC39. understand the work requirement from superior, periodically		
superior	PC40. report to superior on the work completed		
	PC41. escalate the customer issues and problems that cannot be handled at field level		
	PC42. document the work completed on the company ERP software for tracking and future references		







ELE/N4602	Install, configure and setup hardware system		
Achieving	To be competent, the user/ individual must be able to:		
productivity and	C43. achieve 100% on-time completion of field installation with reference to		
quality	agreed target and time		
	submit feedback form on customer satisfaction level with respect to the		
	product installation		
	PC45. find solutions to customer complaints and queries unresolved in the field		
	PC46. report work status and prepare documentation as per company standards		
Knowledge and Unders	tanding (K)		
A. Organizational	The individual on the job needs to know and understand:		
Context KA1. company's policies on: incentives, delivery standards, and pers			
(Knowledge of the	management		
company /	MA2 and a sales and often sales aumout notice.		
organization and	KA2. company's sales and after sales support policy		
its processes)	KA3. importance of the individual's role in the workflow		
	KA4. reporting structure		
	KA5. company's policy on product's warranty and other terms and conditions		
	KA6. company's line of business and product portfolio		
B. Technical	The individual 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 equipment assembled in a pack (one system)		
	KB8. different types of peripherals and their standard installation procedure		
	KB9. specification and the procedures to be followed for setting up the system		
	KB10. voltage and power requirement for different hardware devices		
	KB11. memory, input, output and storage devices		
	KB12. different modules in system such as SMPS, drivers, hard disk, battery, mother		
	board		







ELE/N4602	Install, configure and setup hardware system			
	KB14. how to operate the system and other hardware peripherals			
	KB15. controls of different peripherals including UPS			
	KB16. implementation process for Engineering Change Order (ECO)			
	KB17. all safety rules, policies and procedures			
	KB18. quality standards to be followed			
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			
	SB2. operate the peripheral hardware			
	SB2. operate the peripheral hardware SB3. operate the different software SB4. configure different settings and installations of hardware and software as per			
	SB2. operate the peripheral hardware SB3. operate the different software SB4. configure different settings and installations of hardware and software as per customer requirement			
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	SB2. operate the peripheral hardware SB3. operate the different software SB4. configure different settings and installations of hardware and software as per customer requirement Computer system and peripheral hardware related skills The user/individual on the job needs to know and understand how: SB5. to assemble and set up computer and laptop			
	SB2. operate the peripheral hardware SB3. operate the different software SB4. configure different settings and installations of hardware and software as per customer requirement Computer system and peripheral hardware related skills The user/individual on the job needs to know and understand how: SB5. to assemble and set up computer and laptop SB6. to assemble and install the peripheral hardware			
	SB2. operate the peripheral hardware SB3. operate the different software SB4. configure different settings and installations of hardware and software as per customer requirement Computer system and peripheral hardware related skills The user/individual on the job needs to know and understand how: SB5. to assemble and set up computer and laptop SB6. to assemble and install the peripheral hardware SB7. different hardware modules in the computer system and peripherals			







ELE/N4602	Install, configure and setup hardware system		
	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		

NOS Version Control







Install, configure and setup hardware system

NOS Code	ELE/N4602		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	17/11/13
Industry Sub-sector	IT Hardware	Last reviewed on	24/12/13
		Next review date	23/12/14

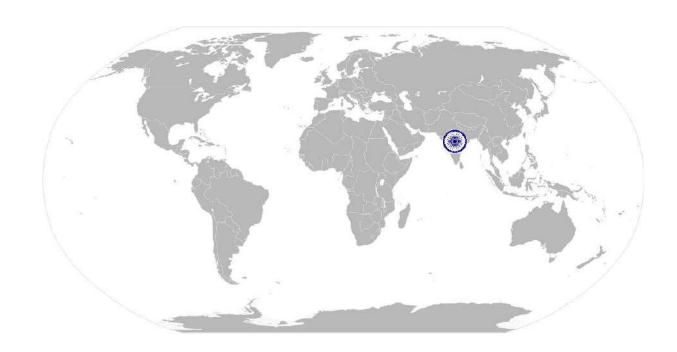






Troubleshoot and replace faulty module

National Occupational Standard



Overview

This unit is about troubleshooting hardware related problems by diagnosing and replacing faulty module at customer's premises.







ELE/N4603 Troubleshoot and replace faulty module

Unit Code	ELE /N4603	
Unit Title (Task)	Troubleshoot and replace faulty module	
Description	This OS unit is about diagnosing the problem and troubleshooting problems in the hardware	
Scope	 This unit/ task covers the following: Receive and understand the customer complaint registered at customer care Identify system problems on firld visit Replace faulty module after diagnosis Interact with customer Report to Superior 	

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

Understanding customer complaint To be competent, the user/ individual must be able to: PC1. 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. carry the troubleshooting instructions sheets PC5. understand the warranty, terms and conditions with relation to the product identify the type of problem and carry relevant tools and euipment based customer complaint and standard operating procedure PC7. assess whether replacement or repair of module may be required PC8. carry only 100% approved and verified field replacable parts for repairing or replacing PC9. decide on whether it can be repaired in field or at company's test centre To be competent, the user/ individual must be able to: PC10. understand the problems experienced by the customer PC11. use equipment such as 'power on self test' (POST) card to identify the common errors and issues in the system which does not start up PC12. conduct root-cause analysis and identify the likely problem area		Deufe man College		
PC1. listen carefully to concerns registered by customer at customer care PC2. interact with customer on telephone for better understanding of concern before the visit PC3. commence field trip based on type of complaint PC4. carry the troubleshooting instructions sheets PC5. understand the warranty, terms and conditions with relation to the product PC6. identify the type of problem and carry relevant tools and euipment based customer complaint and standard operating procedure PC7. assess whether replacement or repair of module may be required PC8. carry only 100% approved and verified field replacable parts for repairing or replacing PC9. decide on whether it can be repaired in field or at company's test centre Identifying system- level problem on field To be competent, the user/ individual must be able to: PC10. understand the problems experienced by the customer PC11. use equipment such as 'power on self test' (POST) card to identify the common errors and issues in the system which does not start up	Element			
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PC8. carry only 100% approved and verified field replacable parts for repairing or replacing PC9. decide on whether it can be repaired in field or at company's test centre Identifying system-level problem on field PC10. understand the problems experienced by the customer PC11. use equipment such as 'power on self test' (POST) card to identify the common errors and issues in the system which does not start up		customer complaint and standard operating procedure		
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field PC11. use equipment such as 'power on self test' (POST) card to identify the common errors and issues in the system which does not start up	Identifying system-	able to:		
common errors and issues in the system which does not start up	level problem on	by the customer		
,	field	test' (POST) card to identify the		
PC12. conduct root-cause analysis and identify the likely problem area		em which does not start up		
		fy the likely problem area		
PC13. disassemble and check each part of computing system such as SMPS,		mputing system such as SMPS,		
Memory, Hard disk to isolate the failed module		ed module		
PC14. follow standard operating procedure while handling hardware modules such		vhile handling hardware modules such		
as handling PCB with ESD standards				
PC15. in case of peripherals, check all parts such as print head, lens, led display to		uch as print head, lens, led display to		
isolate faulty module				
PC16. make decision on whether the part can be replaced or component should be		n be replaced or component should be		
repaired				
PC17. identify the solution design where the module to be replaced or software to		module to be replaced or software to		
be installed or updated				







ELE/N4603 Troubleshoot and replace faulty module

ELE/N4005 ITOUDIESHOOT and Teplace faulty module			
	PC18. decide on whether to replace module or send to repair centre		
Replacing faulty	To be competent, the user/ individual must be able to:		
module	PC19. if the module has to be replaced, disassemble the system, remove and repla		
	and re-assemble the system		
	PC20. if soldering needs to be done, use manual hand soldering iron unit to solder		
	the components or parts		
	PC21. if there is any operating system error, software related issues, reinstal the		
	software or fixing the issues		
	PC22. fix the common problems faced with peripherals and networking devices		
	PC23. escalate the problems which cannot be addressed at field level to the superior		
	for servicing at company's repair stations		
	PC24. coordinate with remote technical helpdesk to seek any assistance on field		
	PC25. follow appropriate safety procedures while handling tools such as soldering		
	iron		
	PC26. test 100% products or functions are tested after new hardware modules or		
	software is installed		
Completing repairs	To be competent, the user/ individual must be able to:		
Completing repairs	PC27. understand clearly the requirement before field visit		
	PC28. report percentage of call closure in multiple visits against benchmark		
	PC29. ensure no sub-standard or unverified parts are used in replacing		
	PC30. complete the function within the agreed Turn Around Time (TAT)		
	PC31. complete the call closure in single visit		
	PC32. complete the task with the quality benchmark of the company		
	PC33. meet monthly or daily target given		
Interacting with	To be competent, the user/ individual must be able to:		
customer	PC34. inform customer about the problem, action to be taken		
customer	PC35. inform customer on adequate information about hardware device or software		
	PC36. instruct customer on use of and procedures to be followed for operating the		
	system or hardware		
	PC37. confirm acceptance before replacing module or sending for repairs to		
	company		
	PC38. inform customer about warranty and other terms and conditions on the		
	replaced or repaired hardware devices		
	PC39. provide relevant documents to customers on completion of work		
	PC40. achieve 100% satisfaction with customer on post sales service		
Reporting to	To be competent, the user/ individual must be able to:		
superior	PC41. receive the work order from the superior or customer care about the		
superior	complaint registered		
	PC42. report on the work load and completion status		
	PC43. find solutions to customer complaints and queries that are unresolved in the		
	field		
	PC44. escalate the problems that cannot be resolved at field level with reason		
	PC45. report 100% on time completion of field repair or hardware replacement with		
	reference to agreed target and time or reasons for not meeting target		
	PC46. submit the feedback form on customer satisfaction level with respect to the		
	product repair		
	li a mana a albam		







ELE/N4603	Troubleshoot and replace faulty module		
	PC47. accurately report work status through proper documentation as per		
	company's standards		
	PC48. create knowledge bank on the complex repairs made through documentat		
Knowledge and Unders	derstanding (K)		
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		
company /	KA2. company's sales and after sales support policy		
organization and	KA3. importance of the individual's role in the workflow		
its processes)	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		
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		
	KB6. different equipments assembled in a pack (one system) KB7. peripherals and their standard operating procedure for disassembling and re-		
	KB7. peripherals and their standard operating procedure for disassembling and re- assembling		
	KB8. procedures to be followed for trouble shooting and standards to follow		
	KB9. voltage and power requirement for different hardware devices		
	KB10. memory, input, output and storage devices		
	KB11. different modules in system such as SMPS, drivers, hard disk, battery, mother board		
	. tools required for repair such as soldering iron, multimeter		
	3. controls of different peripherals		
	4. all safety procedures to follow		
	KB15. quality standards to be followed		
	KB16. 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		
	SA2. 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		







ELE/N4603 Troubleshoot and replace faulty module			
	SA6. to achieve the target		
B. Professional Skills	Hardware operating skills		
	The user/individual on the job needs to know and understand how to:		
	SB1. operate computer and laptop		
	operate compater and raptop		
	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		
	Computer system and peripheral hardware related skills		
	The user/individual on the job needs to know and understand how:		
	SB5. different modules and their functions in computer systems		
	SB6. to diagnose the issues in computer and laptop hardware modules		
	SB7. to diagnose the issues in peripheral modules		
	SB8. assemble modules in computer system and peripherals		
	Using tools and machines		
	The user/individual on the job needs to know and understand how to:		
	SB9. operate electronic screw drivers for disassembling and assembling of equipments		
	SB10. use other specific devices for repairs such as soldering iron, multimeter, PC cards		
	Reflective thinking		
	The user/individual on the job needs to know and understand how to:		
	SB11. improve work processes		
	SB12. reduce errors on field and repeat trips		
	Critical thinking		
	The user/individual on the job needs to know and understand how to:		
	SB13. spot process disruptions and delays		
	SB14. report on any issues raised by customers to superiors without delay		







Troubleshoot and replace faulty module

NOS Version Control

NOS Code		ELE/N4603	
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	17/11/13
Industry Sub-sector	IT Hardware	Last reviewed on	24/12/13
		Next review date	23/12/14







Troubleshoot and replace faulty module



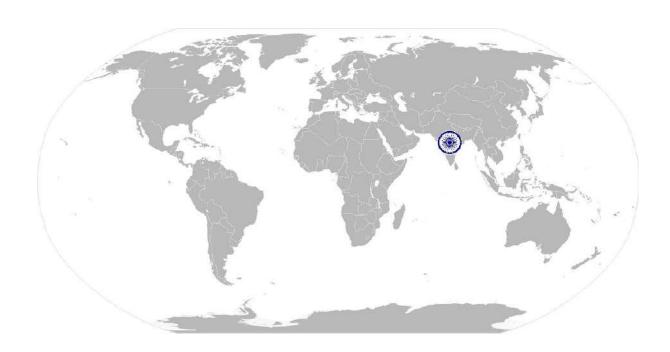






Coordinate with colleagues and co-workers

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.







Coordinate with colleagues and co-workers

L	E/ N9909	Coordinate with colleagues and co-workers		
	Unit Code	ELE/N9909		
	Unit Title (Task)	Coordinate with colleagues		
	Description	This OS unit is about communicating with colleagues and seniors in order to achieve smooth work flow		
	Scope	This unit/ task covers the following:		
		Interact with supervisor or superior		
		Coordinate with colleagues		
	Performance Criteria(P	C) w.r.t. the Scope		
	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 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		
	Coordinating with	To be competent, the user/ individual must be able to:		
	colleagues	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		
		C14. assist colleagues with resolving field problems resolve conflicts and achieve smooth workflow		
١	Vaculodae and Under	PC15. follow the company policy during cross functional interaction		
	Knowledge and Unders	- 1 1		
	A. Organizational Context	The individual on the job needs to know and understand: KA1. company's policies on: incentives, delivery standards, and personnel		
	(Knowledge of the	management		







ELE/N9909 Coordinate with colleagues and co-workers

company / organization and its processes)	KA2. importance of the individual's role in the workflowKA3. reporting structure	
B. Technical Knowledge	The individual on the job needs to know and understand: KB1. how to communicate effectively KB2. how to build team coordination	
Skills (S) [Optional]		
A. Core Skills/ Generic Skills	Teamwork and multitasking The individual on the job needs to know and understand how: SA1. to deliver product to next work process on time	
B. Professional Skills	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	







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	17/11/13	
Industry Sub-sector	IT Hardware	Last reviewed on	24/12/13	
		Next review date	23/12/14	





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		
Onderstanding	that an individual needs in order to perform to the required standard.		
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.		
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.		





India in Electronics Qualifications Pack For Field Technician – Computing and Peripherals Core Skills / Generic Core skills or generic skills are a group of skills that are t

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		

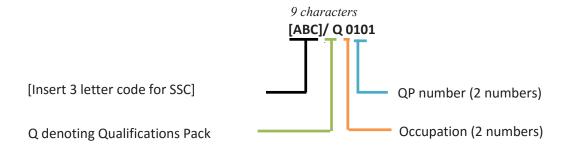




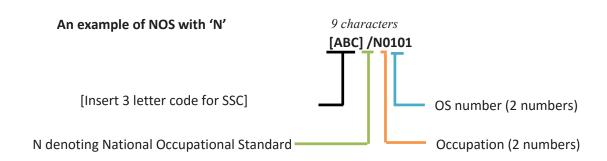
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard









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







CRITERIA FOR ASSESSMENT

Element	Performance Criteria	Tot al Ma rks (40 0)	Out Of	The ory	Skills Prac tical
	ELE/N4601 Engage with customers				
	PC1. call the customer based on inputs logged into customer care		3	1	2
	PC2. greet the customer and listen to their problem attentively		3	1	2
Interacti ng with	PC3. check with customer about time for visit, field work and confirm location		4	2	2
custome r	PC4. follow etiquette when interacting with customers as per company policy such as politeness and patience		6	2	4
	PC5. seek feedback from the customers on completion of work		4	2	2
	PC6. understand location requirement for placement of system during and after installation		2	1	1
Underst	PC7. seek inputs to understand symptoms for the problem faced		4	2	2
anding custome	PC8. ask open and close-ended questions to understand the specific problem		4	2	2
r's require	PC9. inform customer about the replacement or repair process		4	2	2
ments	PC10. enquire about warranty coverage		3	1	2
	PC11. educate about other useful products and annual maintenance contract		3	1	2
	PC12. summarise the problem to customer and suggest the possible solutions	100	5	2	3
Suggesti ng	PC13. inform customers on whether the module has to be replaced or repaired with reasons		5	2	3
solutions	PC14. explain the customers on time taken, repair process and possible cost for the service or inclusion under warranty		5	2	3
	PC15. seek customer's approval for further service		5	2	3
Completi ng	PC16. provide note to customers about the problem(s), actions taken and the cost associated and retain a copy		5	2	3
docume ntation	PC17. provide appropriate invoice for any purchase of module or parts by customer		5	2	3
Achievin	PC18. interact with customer on time within the specified Service Level Agreement (SLA) time		3	1	2
g producti	PC19. identify the customer's requirement and identify the resources and record		3	1	2
vity and quality	PC20. accurately assess the problem and suggest appropriate solutions		3	1	2
	PC21. offer the right service as per customer's requirements		3	1	2





Qualifications Pack For Field Technician – Computing and Peripherals

Skilling India in Efr	Quantition of a control of the contr	Liuis I I			ĺ
	PC22. communicate problem effectively in order to secure customer's confidence		4	2	2
	PC23. gauge customer satisfaction with the installation and placement of device		4	2	2
	PC24. maintain no repeat or second escalation from customer		4	1	3
	PC25. achieve customer satisfaction on engagement behaviour such as listening to complaints or appropriate dressing		3	1	2
	PC26. achieve 100% customer satisfaction and positive feedback		3	1	2
	1 C20. achieve 100% customer satisfaction and positive feedback	ТОТ	100	40	60
		AL	100	40	00
	ELE/N4602 Install, configure and setup hardware systen	1			
	PC1. check site conditions		1	0	1
	PC2. check and ensure any tailor-made programs required by the customer		1	0	1
	PC3. open the packaging of new product and take out the hardware carefully		1	0	1
	PC4. connect all the hardware devices such as CPU, Monitor, Keyboard, Mouse, as per the specifications of the system		2	1	1
	PC5. in case of laptop, connect battery, plug in and switch on the system		2	1	1
Installing hardwar	PC6. follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards		2	1	1
e	PC7. follow the standard operating procedure for installation of each model of hardware devices and comply with them		2	1	1
	PC8. place the system at a location as preferred by customer		2	1	1
	PC9. install the hardware / devices as per standard operating procedure		2	1	1
	PC10. ensure that appropriate device and model specific procedure is followed as per installation manual	100	2	1	1
	PC11. maintain zero-material defect during material handling by following standard operating procedure		2	1	1
	PC12. carry tools and manuals as per installation manual		1	0	1
	PC13. understand the peripheral requirements of customers and ensure all hardware are available		3	1	2
Configuri ng and	PC14. understand the placement requirement of peripheral equipment such as printers, modems, etc., as per customer preferences		3	1	2
setting up	PC15. connect the peripheral devices with the system as per the standard procedure followed for each equipment		4	2	2
peripher als	PC16. install the peripherals, connect the appropriate peripheral such as printer, scanner to the system and run the installed program for set up		4	2	2
	PC17. follow the safety procedures while handling and installing the equipment		4	2	2





Qualifications Pack For Field Technician – Computing and Peripherals

	PC18. install and configure peripherals as standard operating	4	2	2
	procedure	4	2	
	PC19. ensure the placement of peripherals are as per customer requirement	3	1	2
Setting	PC20. install the operating system and appropriate application software as per customer preference	5	2	3
up Software	PC21. install additional software as per standard customer requirement	5	2	3
	PC23. switch on the system and peripherals and check for effective functioning	2	1	1
Checking system	PC24. check and ensure the functionality of system, peripherals and applications	3	1	2
function ality	PC25. ensure product functions are tested and demo given to the customer after hardware, software, operating system and peripheral integration with reference to the installation manual	3	1	2
	PC26. ensure that customer is satisfied	2	1	1
Commissi	PC27. measure and meet multipart calls norm against benchmark	2	1	1
Completi	PC28. complete the installation within the agreed Turn Around Time (TAT)	3	1	2
installati on	PC29. complete the call closure in single visit	3	1	2
OII	PC30. complete the task with the quality benchmark of the company	2	1	1
	PC31. understand the customer requirement and queries on the hardware	2	1	1
	PC32. educate customer on use of and procedures to be followed in operation of hardware	1	0	1
	PC33. inform customer about warranty and other terms and conditions on the hardware devices	1	0	1
Interacti	PC34. inform about cost estimates for any other new installations	2	1	1
ng with custome	PC35. provide adequate information about the hardware devices, operating procedure, maintenance, etc., to the customer	1	0	1
'	PC36. address the queries and issues raised by the customer on device	1	0	1
	PC37. inform customers clearly about warranty, and product terms and conditions	1	0	1
	PC38. provide customers on all the appropriate documents including invoice	1	0	1
	PC39. understand the work requirement from superior, periodically	1	0	1
Intouc at:	PC40. report to superior on the work completed	1	0	1
Interacti ng with superior	PC41. escalate the customer issues and problems that cannot be handled at field level	2	1	1
superior	PC42. document the work completed on the company ERP software for tracking and future references	1	0	1
Achievin g	PC43. achieve 100% on-time completion of field installation with reference to agreed target and time	3	2	1





$Qualifications\ Pack\ For\ Field\ Technician-Computing\ and\ Periph\underline{erals}$

producti vity and	PC44. submit feedback form on customer satisfaction level with respect to the product installation		3	2	1
quality	PC45. find solutions to customer complaints and queries unresolved in the field		2	1	1
	PC46. report work status and prepare documentation as per company standards		2	1	1
			100	40	60
	ELE/N4603 Troubleshoot and replace faulty module				
	PC1. listen carefully to concerns registered by customer at customer care		3	1	2
	PC2. interact with customer on telephone for better understanding of concern before the visit		3	1	2
	PC3. commence field trip based on type of complaint		2	1	1
Underst	PC4. carry the troubleshooting instructions sheets		3	1	2
anding custome	PC5. understand the warranty, terms and conditions with relation to the product		3	1	2
r complai nt	PC6. identify the type of problem and carry relevant tools and euipment based customer complaint and standard operating procedure	_	3	1	2
	PC7. assess whether replacement or repair of module may be required		3	1	2
	PC8. carry only 100% approved and verified field replacable parts for repairing or replacing		2	1	1
	PC9. decide on whether it can be repaired in field or at company's test centre		3	1	2
	PC10. understand the problems experienced by the customer	100	2	1	1
	PC11. use equipment such as 'power on self test' (POST) card to identify the common errors and issues in the system which does not start up	100	3	1	2
	PC12. conduct root-cause analysis and identify the likely problem area		3	1	2
Identifyi ng	PC13. disassemble and check each part of computing system such as SMPS, Memory, Hard disk to isolate the failed module		3	1	2
systemle vel	PC14. follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards		3	1	2
problem on field	PC15. in case of peripherals, check all parts such as print head, lens, led display to isolate faulty module		3	1	2
	PC16. make decision on whether the part can be replaced or component should be repaired		3	1	2
	PC17. identify the solution design where the module to be replaced or software to be installed or updated		3	1	2
	PC18. decide on whether to replace module or send to repair centre		2	1	1
Replacin g faulty	PC19. if the module has to be replaced, disassemble the system, remove and replace and re-assemble the system		2	1	1





Skilling India in Electronics Qualifications Pack For Field Technician – Computing and Peripherals module PC20. if soldering needs to be done, use manual hand soldering iron

module	PC20. if soldering needs to be done, use manual hand soldering iron unit to solder the components or parts
	PC21. if there is any operating system error, software related issues, reinstal the software or fixing the issues
	PC22. fix the common problems faced with peripherals and networking devices
	PC23. escalate the problems which cannot be addressed at field level to the superior for servicing at company's repair stations
	PC24. coordinate with remote technical helpdesk to seek any assistance on field
	PC25. follow appropriate safety procedures while handling tools such as soldering iron
	PC26. test 100% products or functions are tested after new hardware modules or software is installed
	PC27. understand clearly the requirement before field visit
	PC28. report percentage of call closure in multiple visits against benchmark
Completi	PC29. ensure no sub-standard or unverified parts are used in replacing
ng repairs	PC30. complete the function within the agreed Turn Around Time (TAT)
	PC31. complete the call closure in single visit
	PC32. complete the task with the quality benchmark of the company
	PC33. meet monthly or daily target given
	PC34. inform customer about the problem, action to be taken
	PC35. inform customer on adequate information about hardware device or software
Interacti	PC36. instruct customer on use of and procedures to be followed for operating the system or hardware
ng with custome	PC37. confirm acceptance before replacing module or sending for repairs to company
r	PC38. inform customer about warranty and other terms and
	conditions on the replaced or repaired hardware devices
	PC39. provide relevant documents to customers on completion of work
	PC40. achieve 100% satisfaction with customer on post sales service
	PC41. receive the work order from the superior or customer care about the complaint registered
Reportin	PC42. report on the work load and completion status
g to	PC43. find solutions to customer complaints and queries that are
superior	unresolved in the field PC44. escalate the problems that cannot be resolved at field level
	with reason

3	1	2
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2	1	1
1	0	1
2	1	1
1	0	1





Qualifications Pack For Field Technician – Computing and Peripherals

	PC45. report 100% on time completion of field repair or hardware replacement with reference to agreed target and time or reasons for not meeting target	Cruis	1	0	1
	PC46. submit the feedback form on customer satisfaction level with respect to the product repair		1	0	1
	PC47. accurately report work status through proper documentation as per company's standards		1	0	1
	PC48. create knowledge bank on the complex repairs made through documentation		1	0	1
		TOT AL	100	40	60
ELE/N0009 Coordinate with colleagues					
Interacti ng with supervis or	PC1. understand and assess work requirements		5	2	3
	PC2. understand the targets and incentives	100	5	2	3
	PC3. understand new operating procedures and constraints		5	2	3
	PC4. report problems in the field		5	2	3
	PC5. resolve personnel issues		5	2	3
	PC6. receive feedback on work standards and customer satisfaction		5	2	3
	PC7. communicate any potential hazards at a particular location		5	2	3
	PC8. meet given targets		5	2	3
	PC9. deliver work of expected quality despite constraints		5	2	3
	PC10. receive positive feedback on behaviour and attitude shown during interaction		5	2	3
Coordina ting with colleagu es	PC11. interact with colleagues from different functions and understand the nature of their work		10	4	6
	PC12. receive spares from tool room or stores; deposit faulty modules and tools to stores		10	4	6
	PC13. pass on customer complaints to colleagues in a respective geographical area		10	4	6
	PC14. assist colleagues with resolving field problems resolve conflicts and achieve smooth workflow		10	4	6
	PC15. follow the company policy during cross functional interaction		10	4	6
		TOT AL	100	40	60