





QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR ELECTRONICS INDUSTRY

What are Occupational Standards(OS)?

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

Contact Us:

ESSCI, New Delhi
Electronics Sector Skills
Council of India
422, Okhla Industrial
Estate, Phase-III,
New Delhi-110020
E-mail:
info@essc-india.org





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Introduction

Qualifications Pack- Mobile Phone Hardware Repair Technician

SECTOR: ELECTRONICS

SUB-SECTOR: COMMUNICATION & BROADCASTING

OCCUPATION: AFTER SALES SERVICE

REFERENCE ID: ELE/Q8104

ALIGNED TO: NCO-2015/7422.2301

The Mobile Phone Hardware Repair Technician diagnoses problems and repairs the faulty module of the mobilephone.

Brief Job Description: The individual at work is responsible for rectifying faults in the mobilephone brought in by the customer. The individual receives the faulty mobile phone, diagnoses the problems, performs front end or hardware level repair as required, resolves software issues and ensures effective functioning before delivering back to customer.

Personal Attributes: The job requires the individual to have: attention to details, patience, ability to listen, steady hands, logical thinking and customer orientation. The individual must work on desk with different types of equipment.







Qualifications Pack For Mobile Phone Hardware Repair Technician

Qualifications Pack Code	ELE/Q8104		
Job Role	Mobile Phor	ne Hardware Repair Te	chnician
Credits(NSQF)	TBD	Version number	1.0
Sector	Electronics	Drafted on	12/01/14
Sub-sector	Communication & Broadcasting	Last reviewed on	29/04/15
Occupation	After Sales Service	Next review date	30/06/16
NSQC Clearance on		18/05/15	

Job Role	Mobile Phone Hardware Repair Technician
Role Description	Diagnosing problems and repairing the faulty module of the mobile phone
NSQF level	4
Minimum Educational Qualifications	ITI
Maximum Educational Qualifications	B.E.
Training	Not applicable
Minimum Job Entry Age	18 years
Experience	1 year in hardware repair for ITI passed
Applicable National Occupational Standards (NOS)	Compulsory: 1. ELE/N8106 Interact with customer and perform front end repair 2. ELE/N8107 Repair and rectify the faults in mobile phone 3. ELE/N9951 Interact with other employees 4. ELE/N9910 Maintain safe and secure work environment Optional: Not applicable
Performance Criteria	As described in the relevant OS units



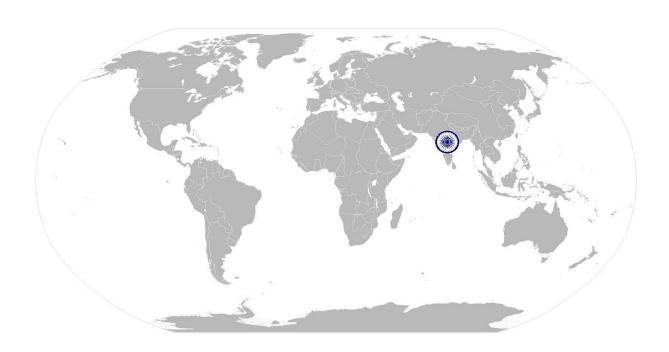






Interact with customer and perform front end repair

National Occupational Standard



Overview

This unit is about interacting with customers and understanding their requirements or problems faced with the mobile phone. It includes front end repairing where disassembling of hardware is not required.









ELE/N8106 Interact with customer and perform front end repair

Unit Code	ELE /N8106
Unit Title (Task)	Interact with customer and perform front end repair
Description	This OS unit is about interacting with the customers and their customer requirements or problems faced in the mobile phone and performing front end repair where disassembling of hardware is not required
Scope	 This unit/ task covers the following: Engage with the customer Understand the complaint Check for terms and conditions of using system Perform front end repair Interact with supervisor or superior and achieve targets

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

	Professional City of		
Element	Performance Criteria		
Engaging with	To be competent, the user/ individual must be able to:		
customers	PC1. receive the customers and greet them as per company's norms		
	PC2. follow behavioural etiquettes while interacting with customers		
	PC3. ensure the customers are comfortable in the store		
	PC4. communicate in the language which the customers are comfortable with		
	PC5. understand the profile of the customers and offer service		
	PC6. inform about repair charges and warranty applicable		
Understanding the	To be competent, the user/individual must be able to:		
complaint	PC7. interact with customers to understand the customer's purpose of visit such		
•	as repair of phone, purchase of accessories, software upload, collection of		
	repaired phone		
	PC8. listen to customers and understand the customer level complaint such as		
	display not working, not switching on		
	PC9. interrogate the customers to assess the cause of problem such as physical		
	damage, uploading of any unauthorised software or application		
	PC10. decide on the action to be performed, i.e., front end repair or hardware level		
	repar is required		
	PC11. inform customers about the time taken and estimated cost for hardware		
	level repair		
	PC12. provide document to customers for collecting the device after repair		
Documenting on	To be competent, the user/ individual must be able to:		
computer	PC13. use the system to identify the warranty coverage of the mobile phone and		
compater	other terms and conditions		
	PC14. understand the customer relationship management policy of the mobile		
	brand and inform customers about them		
	PC15. log into customer portal and enter the details of the customer and other		
	details such as phone model, complaints, warranty coverage		
	PC16. understand and use the interactive ERP system of the company and enter		
	1 C10. Ginderstand and use the interactive Enr system of the company and enter		









ELE/N8106	Interact with customer and perform front end repair
	appropriate details
	PC17. use the system to prepare invoice, stock management, order placement,
	accessories availability, etc.
Performing front end	To be competent, the user/ individual must be able to:
repair	PC18. identify problem and decide the action to be taken
	PC19. upload only licensed and brand approved applications as per customer
	requirement using system
	PC20. understand the application and software compatability with the mobile
	phone and suggest to customers accordingly
	PC21. check the accessories and perform a demo with the customer to ensure their
	functionality (chargers, SD card, etc)
	PC22. open the panel of the mobile phone without damaging them
	PC23. replace the parts such as battery and clean the inner parts of the phone
	PC24. ensure the functionality of the replaced part
	PC25. provide necessary details on the warranty, terms and conditions of the
	replaced parts
	PC26. educate customers on effective usage of mobile phone to save battery and
	to avoid any repeat problem
Interacting with	To be competent, the user/ individual must be able to:
superior and meeting	PC27. understand the work requirement from superior, periodically
target	PC28. report to superior on the work completed
0	PC29: seek technical assistance from superior whenever required
	PC30. document the work completed on the company ERP software for tracking
	and future references
Knowledge and Under	standing (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
	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. company's service level agreement (SLA) with the brand
B. Technical	The individual on the job needs to know and understand:
Knowledge	KB1. basic electronics involved in the hardware
Miowicage	KB2. operate various models of moilephone
	KB3. features of mobile phone and their purpose
	KB4. different types of mobile phone and their model specifications
	KB5. how to document the spares movement note and capture all the action
	·
	performed
	performed KB6. different accessories available for mobile phones and their purpose
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KB9.

software and applications available in the mobile phone market, their usage









and purpose KB10. licensed and authorised software compatable for mobile phones and the downloading procedure KB11. specifications of accessories such as chargers, battery KB12. service level agreement with the brand on parameters such as turn around time (TAT), repair procedure, warranty KB13. company's ERP system and operational procedure KB14. safety rules, policies and procedures KB15. quality standards to be followed Skills (S) A. Core Skills Reading and writing skills The user/individual on the job needs to know and understand how to: SA1. prepare complaints note with customer details, issues faced, phone details SA2. note customer complaints and solution provided SA3. prepare invoice with appropriate details Teamwork and multitasking The user/individual on the job needs to know and understand how: SA4. to share work load as required SA5. to achieve the targets given on service B. Professional 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
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Communication skills
The individual on the job needs to know and understand:
SB4. how to seek inputs from customers 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 or accessories replacement
SB8. how to educate on precautions to be taken for effective uage of mobile
phone
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
SB11. importance of being patient and courteous with all types of customers
SB12. being polite and courteous under all circumstances



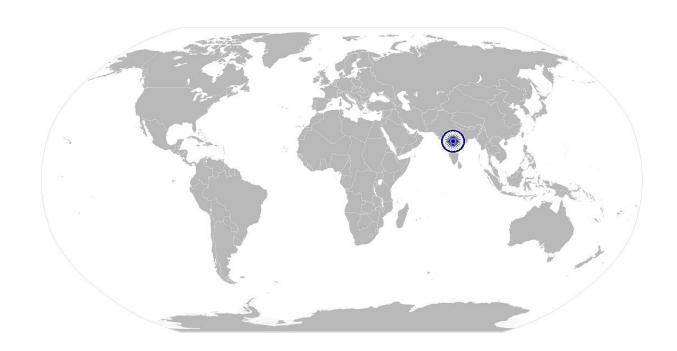






ELE/N8106 Interact with customer and perform front end repair

Computer and Software related skills
The user/individual on the job needs to know and understand:
SB13. how to operate computer and laptop with ease
SB14. software and applications related to mobile phone with its features and purpose
SB15. how to download software and application from company's website and from cloud
SB16. how to download mobile phone related document from internet such as model specification ,repair manual











Interact with customer and perform front end repair

NOS Version Control

NOS Code		ELE/N8106	
Credits(NSQF)	TBD	Version number	1.0
Industry	Electronics	Drafted on	12/01/14
Industry Sub-sector	Communication & Broadcasting	Last reviewed on	29/04/15
Occupation	After Sales Service	Next review date	30/06/16







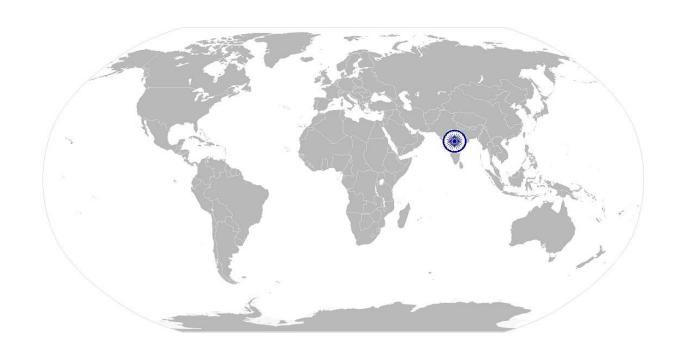






Repair and rectify the faults in mobile phone

National Occupational Standard



Overview

This unit is about repairing the faulty module after identifying the problem, reworking and rectifying the module using various repairing tools and techniques. It is also about resolving software related problems.









ELE/N8107 Repair and rectify the faults in mobilephone

Unit Code	ELE /N8107
Unit Title (Task)	Repair and rectify the faults in mobile phone
Description	This OS unit is about repairing the faulty module in the hardware and checking for effective functioning. Also, software issues are also checked and rectified.
Scope	 This unit/ task covers the following: Follow standard repair procedures and avoid damage Diagnose the problem in the mobile phone Decide on the type of repairs to be performed Assemble or disassemble the mobile phone as per repair required
	 Replace or repair the faulty module Fix the software malfunction Document the repair process Seek assistance from superior as necessary
	Report and document work status and achieve productivity target

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

Element	Performance Criteria		
Following standard repair procedure	To be competent, the user/ individual must be able to: PC1. follow the standard procedure as documented by the mobile phone brand for each model PC2. take anti static precautions before work and wear ESD wrist straps or aprons follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards PC4. use recommended tools for specific operation suggested by the brand maintain zero-material defect during material handling by following standard operating procedure		
Assembling and	To be competent, the user/ individual must be able to:		
disassembling the	PC6. open the outer panel of the mobile phone using metal / plastic case opening		
mobile phone	tools		
	PC7. use the brand recommended screwdrivers to remove the screws to open the inner casing		
	PC8. locate the connectors and release them to remove the motherboard from the device		
	PC9. use hot air gun and other devices to remove the LCD screen from the panel		
	PC10. follow similar process and use appropriate tools to assemble the mobile phone		
Diagnosing the	To be competent, the user/ individual must be able to:		
problem	PC11. understand the customer level complaint and confirm the issue		
	PC12. take preventive measures and identify if there are any other issues in the mobile phone		
	PC13. use the self diagnostic tools (similar to power on self test (POST) card) to		









ELE/N8107	Repair and rectify the faults in mobilephone
	perform standard diagnosis process and ensure functionality of different
	parts of the device
	PC14. follow the standard diagnostic procedure as documented by the mobile
	phone brand for each model
	PC15. check the recently installed application or software and verify the
Fining the enforcement	compatability of the software with the mobile phone
Fixing the software	To be competent, the user/individual must be able to:
	PC16. check the recently installed application or software and verify the
	compatability of the software with the mobile phone
	PC17. uninstall the applications that is not compatable or creating issues in the
	mobile phone
	PC18. install the licensed and authorised softwares to resolve issues and suiting the
	customer's requirement
Repairing the	To be competent, the user/individual must be able to:
component or	PC19. understand the scope of component level of repair as suggested by the
module	brand
	PC20. estimate the cost of repair and verify if it is with in Beyond Economic Repair
	(BER)
	PC21. heat the singled out component using hot air gun to melt the solder joints
	and remove from PCB
	PC22. clean the board by melting the old solder and removing
	PC23. place the new component precisel the board at specified location
	PC24. solder the component on the PCB using soldering stations
	PC25. ensure the soldering is proper and the component is fixed as per the
	specification
	PC26. operate automated BGA (ball grid array) work station to precisely remove
	the chip from the board and repair them
	PC27. perform reballing function by dismantling, heating the chip to be removed
	from the board, remove the solder remains, put new solder balls, place the
	chip and solder them with the PCB
	PC28. check for functioning of the hardware after repairing
	PC29. ensure that there is no damage of PCB while removal and fixing of SMD
	components
	PC30. ensure other components are not damaged while using hot air gun for
	removal of a component which could cause damage
	PC31. ensure adequate soldering for fixing the component and no further rework is
	required
Replacing faulty	To be competent, the user/ individual must be able to:
component	PC32. receive spare module / component from stores or OEM
	PC33. identify and decide on replacing the module or component as the
	appropriate solution
	PC34. take adequate measures and follow procedures when replacing expensive or
	delicate components such as LCD
	· ·
	PC35. ensure that cost of replacing is justified as the repair cost is beyond
	economic repair (BER)
	PC36. ensure that replaced module or component is working and no further
	rework is required









ELE/N8107	Repair and rectify the faults in mobilephone		
Using equipment	To be competent, the user/ individual must be able to:		
	PC37. identify and use appropriate tools and manuals for repairing the specific		
	issue		
	PC38. prevent any accidents while handling hazardous tools		
	PC39. achieve results using appropriate tools for specific rework activity		
	PC40. maintain zero-material defect during material handling by following standard		
	operating procedure for tools handling		
Seeking assistance	To be competent, the user/ individual must be able to:		
on unresolved faults	PC41. seek technical assistance from engineer on faults that cannot be fixed		
	PC42. receive instruction from engineers on use of specific tools or new repair		
	processes		
	PC43. discuss with superior if the cost estimate is found to be Beyond Economic		
	repair (BER) and take recommended action		
	PC44. coordinate with superior for performing quality check on the repaired		
	module		
Reporting and	To be competent, the user/individual must be able to:		
achieving	PC45. report on the work load and completion status		
productivity target	PC46. submit the appropriate documentation on completion of task assigned		
, ,	PC47. document the work completed on the company ERP software for tracking		
	and future references		
	PC48. achieve 100% daily and weekly target of number of repairs		
	PC49. meet the target of quality as per the ervice Level Agreement (SLA) of the		
	brand and avoid rework		
	PC50. repair within the turnaround time (TAT) and deliver them		
Knowledge and Unders	PC50. repair within the turnaround time (TAT) and deliver them standing (K)		
Knowledge and Unders	standing (K)		
A. Organizational	tanding (K) The individual on the job needs to know and understand:		
A. Organizational Context	The individual on the job needs to know and understand: KA1. company's policies on: incentives, delivery standards, and personnel		
A. Organizational Context (Knowledge of the	The individual on the job needs to know and understand: KA1. company's policies on: incentives, delivery standards, and personnel management		
A. Organizational Context	The individual on the job needs to know and understand: KA1. company's policies on: incentives, delivery standards, and personnel management KA2. company's after sales support policy		
A. Organizational Context (Knowledge of the	The individual on the job needs to know and understand: KA1. company's policies on: incentives, delivery standards, and personnel management KA2. company's after sales support policy KA3. importance of the individual's role in the workflow		
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KB9. assembling and disassembling mobile phone KB10. handling procedure of display systems in mobile phone (LCD and LED) KB11. frequently encountered problems in mobile phone and their repair procedures KB12. terminologies and procedures mentioned in repair manual KB13. softwares and operating system related to mobile phone KB14. applications including games that can be installed in mobile phone and the authentic source to download them KB15. licensed versions of software and application, its terms and conditions associated with it KB16. different types of soldering techniques such as surface mount, through hole KB17. basic electronic repairing and reworking such as desoldering, soldering, removal and fixing components KB18. usage of tools such as electric screwdrivers, multimeter, soldering station, hot air blower, BGA workstation KB19. overview of IPC Standards
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KB18. usage of tools such as electric screwdrivers, multimeter, soldering station, hot air blower, BGA workstation
hot air blower, BGA workstation
KRI9 OVERVIEW OF VIADOATOR
KB20. critical process handling such as Torque Drivers, Soldering Temperature
Maintenance, Light Intensity, Hot Air Blower Temperature Calibrations
KB21. problem solving techniques such as PDCA, RCA, 7QC Tools
KB22. X-Ray validations for BGA Rework
KB23. MSD component handling
KB24. BGA rework in detail
KB25. RF testing methodologies
KB26. estimate cost of repair and verify Beyond Economic Repair (BER) value
KB27. service level agreement (SLA) and conditions associated with it
KB28. Electrostatic Discharge (ESD), its purpose and precautionary measures to be taken
KB29. process system such as 5S
KB30. documentation procedure to record customer, mobile phone and repair
details
KB31. check and test various electronic components on their functionality
KB32. quality standards to be followed
KB33. implementation process for Engineering Change Order (ECO)
Skills (S)
A. Core Skills/ Reading and writing skills
Generic Skills The user/individual on the job needs to know and understand how to:
SB1. read the standard operating or repair procedure manual for different
equipment
SB2. note the process done for diagnose
SB3. document the completed work
Communication skills (oral and listening)
The user/individual on the job needs to know and understand how:
SB4. to share work load as required









B. Professional Skills The user/individual on the job needs to know and understand how to: S81. operate computer and laptop S82. operate the different software related to mobile phone S83. download software and applications from company's website and from cloud appropriately Problem solving The user/individual on the job needs to know and understand how: S84. to share work load as required S85. to achieve the target Plan and organise The user/individual on the job needs to know and understand how to: S81. to improve work processes S82. to reduce errors and correct themselves with the experienced mistakes operate tools such as manual and electric screw drivers for disassembling and assembling of equipments S83. use hot air blower/ gun for desoldering. S84. use semi-automated or automated B& work station S85. use other specific devices for repairs such as soldering iron, multimeter, POST cards. S86. use metal or plastic ply to open the panel of mobile phone S87. use antistatic device such as ESD wrist strips Critical thinking The user/individual on the job needs to know and understand how; S88. to spot process disruptions and delays S89. to report on any issues faced to superiors without delay Customer Centricity NA Decision making The user/individual on the job needs to know and understand: S810. is there any software error in the mobile phone which can be checked with with USB cable and can be reported / corrected from OS console S811. whether the mobile phone is beyond repair or use and throw type or repairable S812. whether it is the LCD plus touch panel or the battery or motherboard which is faulty and can they be replaced S813. are there any hardware issues with camera modules, USB ports and LED S814. are there any hardware issues with camera modules, USB ports and LED	ELE/N8107	Repair and rectify the faults in mobilephone	
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SB13. whether the motherboard can be replaced at location other than OEM		· · · · · · · · · · · · · · · · · · ·	
		· · · ·	
light, SOUND devices like speaker mic, antennas for BLE, WiFI, GSM/LTE,		,	
NFC, light sensors, proximity sensors, gyro sensors, GPS sensors		NFC, light sensors, proximity sensors, gyro sensors, GPS sensors	









Repair and rectify the faults in mobilephone

NOS Code	ELE/N8107		
Credits(NSQF)	TBD	Version number	1.0
Industry	Electronics	Drafted on	12/01/14
Industry Sub-sector	Communication & Broadcasting	Last reviewed on	29/04/15
Occupation	After Sales Service	Next review date	30/06/16



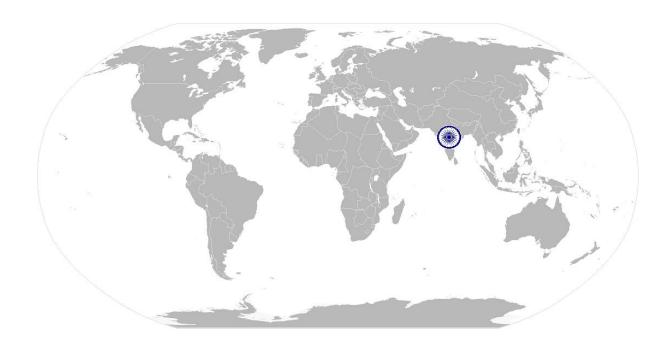








Repair and rectify the faults in mobilephone





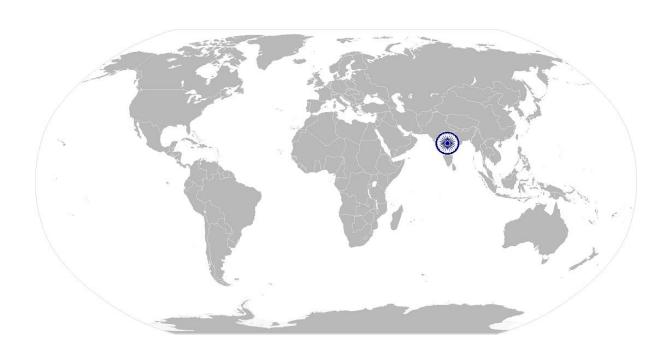






Interact with other employees

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.









LE/N9951	Interact with other employees
Unit Code	ELE/N9951
Unit Title (Task)	Interact with other employees
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(I	PC) w.r.t. the Scope
Element	Performance Criteria
Interacting with	To be competent, the user/ individual must be able to:
supervisor	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
	PC14. assist colleagues with resolving field problems
	PC15. resolve conflicts and achieve smooth workflow
	PC16. follow the company policy during cross functional interaction
Knowledge and Under	
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 importance of the individual's role in the workflow
company /	KA2. importance of the individual's role in the workflow KA3. reporting structure
organization and	ichoi tilig structure
its processes)	









Interact with other employees

B. Technical	The individual on the job needs to know and understand:		
	KB1. how to communicate effectively		
Knowledge	·		
	KB2. how to build team coordination		
Skills (S)			
A. Core Skills/	Reading and writing skills		
Generic Skills	The individual on the job needs to know and understand how:		
	SA1. to deliver product to next work process on time		
	Communication skills (oral and listening)		
	The individual on the job needs to know and understand how:		
	SA2. to communicate with colleagues and others		
	, and the second		
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 Plan and organise			
	riali aliu digaliise		
	The individual on the job needs to know and understand:		
	SB3. how to improve work process		
	Customer centricity		
	NA .		
	Analytical skills		
	NA		
	Critical thinking		
The individual on the job needs to know and understand: SB4. how to spot process disruptions and delays			
			Problem solving
	The individual on the job needs to know and understand how:		
	SB5. to deliver product to next work process on time		





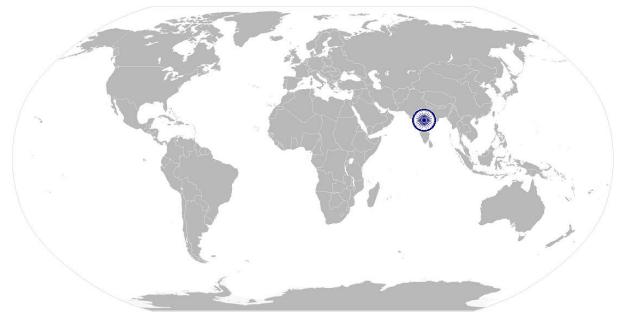




Interact with other employees

NOS Version Control

NOS Code	ELE/N9951		
Credits(NSQF)	TBD	Version number	1.0
Industry	Electronics	Drafted on	12/01/14
Industry Sub-sector	Communication & Broadcasting	Last reviewed on	29/04/15
Occupation	After Sales Service	Next review date	30/06/16



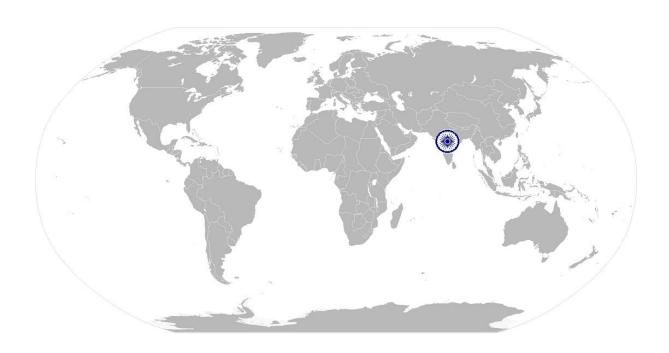








National Occupational Standard



Overview

This unit is about the individual's effort to maintain a safe, healthy and secure working environment.









Unit Code	ELE/N9910		
Unit Title (Task)	Maintain safe and secure working environment		
Description	This OS unit is about following adequate safety procedures to make work environment safe		
Scope	 This unit/ task covers the following: Follow standard safety procedures while handling an equipment Participate in company's safety drills and workshops 		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Participating in drills and workshops	To be competent, the user/ individual must be able to: PC1. comply with safety procedures followed in the company PC2. take adequate safety measures while handling hazardous materials or tools PC3. follow Electrostatic Discharge (ESD) measures for electronic components PC4. escalate matters about hazardous materials or things found in the premises PC5. use safety materials such as gloves, goggles, masks, etc. PC6. adequate safety measures while on work to prevent accidents PC7. ensure zero accidents in work PC8. avoid damage of components due engligence in ESD procedures PC9. ensure no loss for company due to safety negligence To be competent, the user/ individual must be able to: PC10. participate in regular safety drills for being prepared in the event of a fire or natural calamity PC11. help others during the drill or calamity PC12. administer basic first aid PC13. participate in company organised games and fitness sessions such as yoga, etc. PC14. develop good posture for working so that long term health problems do not arise		
Va ovelodo o o d Hadous	touding (V)		
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. company occupational safety and health policy followed KA3. company emergency evacuation procedure KA4. company's medical policy 		
B. Technical Knowledge	The individual on the job needs to know and understand: KB1. how to maintain the work area safe and secure KB2. how to handle hazardous material KB3. how to operate hazardous tools and equipment KB4. emergency procedures to be followed such as fire accidents, etc.		









Skills (S)	
A. Core Skills /	Reading and Writing skills
Generic Skills	The individual on the job needs to know and understand: SA1. the significance of meters and readings and safety indicators SA2. how to maintain logs of discrepancies for further analysis Communication skills (oral and listening)
	The individual on the job needs to know and understand: SA3. how to communicate discrepant or potentially hazardous information to higher level or authority in the company
B. Professional Skills	Analytical skills
	The individual on the job needs to know and understand: SB1. the purpose of using safety materials such as gloves, etc. SB2. how to use safety equipment such as fire extinguisher during fire accidents Decision making The individual on the job needs to know and understand: SB3. when to report potential hazards in time Plan and organise
	The individual on the job needs to know and understand: SB4. how to maintain the workplace and equipment in good running condition SB5. how to avoid hazardous situations by following prescribed safety standards Critical thinking
	The individual on the job needs to know and understand: NA Problem solving
	The individual on the job needs to know and understand: SB6. how to use and share experience or knowledge to help the saftey control team in avoiding hazards
	Customer centricity The individual on the job needs to know and understand: SB7. the significance of avoiding downtime or work flow stoppage arising from hazards and accidents or mishaps by reporting potential safety hazards in time









NOS Version Control

NOS Code	ELE/N9910		
Credits(NSQF)	TBD	Version number	1.0
Industry	Electronics	Drafted on	12/01/14
Industry Sub-sector	Communication & Broadcasting	Last reviewed on	29/04/15
Occupation	After Sales Service	Next review date	30/06/16





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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	Knowledge and understanding are statements which together specify the	
Understanding	technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.	
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.	
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.	









Quantifications rack for mobile riteria raware nepan recimician		
Core Skills/ Generic	Core skills or generic skills are a group of skills that are the key to learning	
Skills	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	



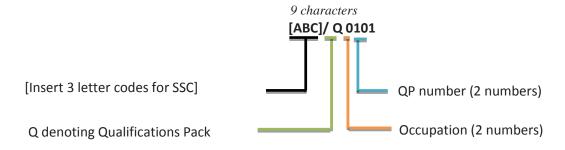




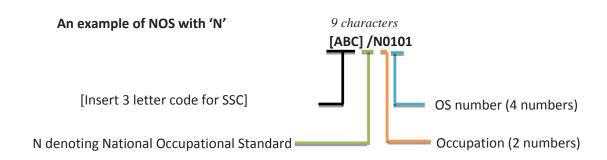
Annexure

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
Generic Occupation	96 - 99

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













CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role	Mobile Phone Hardware Repair Technician
QP#	ELE/Q8104
Sector Skill Council	Electronics Sector Skills Council of India



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 center based 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.

				Marks A	llocation
	Performance Criteria	Total Marks (400)	Out Of	Theory	Skills Practical
	ELE/N8106 Interact with customer and perform front end repair				
PC	C1. receive the customers and greet them as per company's norms		3	1	2
PC	C2. follow behavioural etiquettes while interacting with customers		4	2	2
PC	C3. ensure the customers are comfortable in the store	100	4	2	2
PC	C4. communicate in the language which the customers are comfortable with		3	1	2
PC	C5. understand the profile of the customers and offer service		3	1	2
PC	C6. inform about repair charges and warranty applicable		3	1	2
	C7. interact with customers to understand the customer's purpose of visit such as repair of phone, urchase of accessories, software upload, collection of repaired phone		3	1	2
	C8. listen to customers and understand the customer level complaint such as display not working, ot switching on		4	1	3
	C9. interrogate the customers to assess the cause of problem such as physical damage, uploading of ny unauthorised software or application		3	1	2
PC	C10. decide on the action to be performed, i.e., front end repair or hardware level repar is required		4	1	3
PO	C11. inform customers about the time taken and estimated cost for hardware level repair		3	1	2







PC12. provide document to customers for collecting the device after repair		3	1	2
PC13. use the system to identify the warranty coverage of the mobile phone and other terms and conditions		5	2	3
PC14. understand the customer relationship management policy of the mobile brand and inform customers about them		5	2	3
PC15. log into customer portal and enter the details of the customer and other details such as phone model, complaints, warranty coverage		5	2	3
PC16. understand and use the interactive ERP system of the company and enter appropriate details		5	2	3
PC17. use the system to prepare invoice, stock management, order placement, accessories availability, etc.		2	1	1
PC18. Identify problem and decide the action to be taken		2	1	1
PC19. upload only licensed and brand approved applications as per customer requirement using system]	2	1	1
PC20. understand the application and software compatability with the mobile phone and suggest to customers accordingly		2	1	1
PC21. check the accessories and perform a demo with the customer to ensure their functionality (chargers, SD card, etc)		2	1	1
PC22. open the panel of the mobile phone without damaging them		2	1	1
PC23. replace the parts such as battery and clean the inner parts of the phone		2	1	1
PC24. ensure the functionality of the replaced part		2	1	1
PC25. provide necessary details on the warranty, terms and conditions of the replaced parts		2	1	1
PC26. educate customers on effective usage of mobile phone to save battery and to avoid any repeat problem		2	1	1
PC27. understand the work requirement from superior, periodically		5	2	3
PC28. report to superior on the work completed		5	2	3
PC29. seek technical assistance from superior whenever required		5	2	3
PC30. document the work completed on the company ERP software for tracking and future references		5	2	3
	Total	100	40	6
ELE/N8107 Repair and rectify the faults in mobile phone				
PC1. follow the standard procedure as documented by the mobile phone brand for each model	100	2	1	1
PC2. take anti static precautions before work and wear ESD wrist straps or aprons	100	2	1	1







PC3. follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards
PC4. use recommended tools for specific operation suggested by the brand PC5. maintain zero-material defect during material handling by following standard operating procedure
PC6. open the outer panel of the mobile phone using metal / plastic case opening tools
PC7. use the brand recommended screwdrivers to remove the screws to open the inner casing
PC8. locate the connectors and release them to remove the motherboard from the device
PC9. use hot air gun and other devices to remove the LCD screen from the panel
PC10. follow similar process and use appropriate tools to assemble the mobile phone
PC11. understand the customer level complaint and confirm the issue
PC12. take preventive measures and identify if there are any other issues in the mobile phone PC13. use the self diagnostic tools (similar to power on self test (POST) card) to perform standard diagnosis process and ensure functionality of different parts of the device PC14. follow the standard diagnostic procedure as documented by the mobile phone brand for each model
PC15. check the recently installed application or software and verify the compatability of the software with the mobile phone
PC16. check the recently installed application or software and verify the compatability of the software with the mobile phone
PC17. uninstall the applications that is not compatable or creating issues in the mobile phone
PC18. install the licensed and authorised softwares to resolve issues and suiting the customer's requirement
PC19. understand the scope of component level of repair as suggested by the brand
PC20. estimate the cost of repair and verify if it is with in Beyond Economic Repair (BER)
PC21. heat the singled out component using hot air gun to melt the solder joints and remove from PCB
PC22. clean the board by melting the old solder and removing
PC23. place the new component precisely on the board at specified location
PC24. solder the component on the PCB using soldering stations
PC25. ensure the soldering is proper and the component is fixed as per the specification
PC26. operate automated BGA (ball grid array) work station to precisely remove the chip from the board and repair them

2	1	1
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3	1	2
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3	1	2
5	2	3
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5	2	3
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PC27. perform reballing function by dismantling, heating the chip to be removed from the board, remove the solder remains, put new solder balls, place the chip and solder them with the PCB
PC28. check for functioning of the hardware after repairing
PC29. ensure that there is no damage of PCB while removal and fixing of SMD components
PC30. ensure other components are not damaged while using hot air gun for removal of a component which could cause damage
PC31. ensure adequate soldering for fixing the component and no further rework is required
PC32. receive spare module / component from stores
PC33. identify and decide on replacing the module or component as the appropriate solution
PC34. take adequate measures and follow procedures when replacing expensive or delicate components such as LCD
PC35. ensure that cost of replacing is justified as the repair cost is beyond economic repair (BER)
PC36. ensure that replaced module or component is working and no further rework is required
PC37. identify and use appropriate tools and manuals for repairing the specific issue
PC38. prevent any accidents while handling hazardous tools
PC39. achieve results using appropriate tools for specific rework activity
PC40. maintain zero-material defect during material handling by following standard operating procedure for tools handling
PC41. seek technical assistance from engineer on faults that cannot be fixed
PC42. receive instruction from engineers on use of specific tools or new repair processes
PC43. discuss with superior if the cost estimate is found to be Beyond Economic repair (BER) and take recommended action
PC44. coordinate with superior for performing quality check on the repaired module
PC45. report on the work load and completion status
PC46. submit the appropriate documentation on completion of task assigned
PC47. document the work completed on the company ERP software for tracking and future references
PC48. achieve 100% daily and weekly target of number of repairs
PC49. meet the target of quality as per the Service Level Agreement (SLA) of the brand and avoid rework
PC50. repair within the turnaround time (TAT) and deliver th

1	0	1		
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2	1	1		
1	1	0		
1	1	0		







	Total	100	40	60
ELE/N9951 Interact with other employees				
PC1. understand and assess work requirements		5	2	3
PC2. understand the targets and incentives		5	2	3
PC3. understand new operating procedures and constraints		5	2	3
PC4. report problems in the field		6	3	3
PC5. resolve personnel issues		6	3	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	100	5	2	3
PC10. receive positive feedback on behaviour and attitude shown during interaction		5	2	3
PC11. interact with colleagues from different functions and understand the nature of their work		8	3	5
PC12. receive spares from tool room or stores; deposit faulty modules and tools to stores		8	3	5
PC13. pass on customer complaints to colleagues in a respective geographical area		8	3	5
PC14. assist colleagues with resolving field problems		8	3	5
PC15. resolve conflicts and achieve smooth workflow		8	3	5
PC16. follow the company policy during cross functional interaction		8	3	5
·	TOTAL	100	40	60
ELE/N9910 Maintain safe and secure work environment				
PC1. comply with safety procedures followed in the company		5	2	3
PC2. take adequate safety measures while handling hazardous materials or tools		5	2	3
PC3. follow Electrostatic Discharge (ESD) measures for electronic components		6	3	3
PC4. escalate matters about hazardous materials or things found in the premises		5	2	3
PC5. use safety materials such as gloves, goggles, masks, etc.	100	6	3	3
PC6. adequate safety measures while on work to prevent accidents		5	2	3
PC7. ensure zero accidents in work		6	2	4
PC8. avoid damage of components due to negligence in ESD procedures		6	2	4
PC9. ensure no loss for company due to safety negligence		6	2	4







	10	4	6
	10	4	6
	10	4	6
	10	4	6
	10	4	6
TOTAL	100	40	60
	TOTAL	10 10 10 10	10 4 10 4 10 4 10 4





