





# 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:

Electronics Sector Skill Council of India 602,604,608,6<sup>th</sup> floor Ansal Chambers II, Bhikaji Cama Place New Delhi-110066, India E-mail:

info@essc-india.org





#### Contents

ì	1.	Introduction and Contacts	.1
	2.	Qualifications Pack	.2
	3.	Glossary of Key Terms	.3
I	4.	OS Units	.5
	5.	Annexure: Nomenclature for QP & OS2	27
Į	6.	Assessment Criteria2	9

#### Introduction

#### Qualifications Pack- Field Technician: Air Conditioner

**SECTOR/S:** ELECTRONICS

**SUB-SECTOR:** Consumer Electronics

**OCCUPATION:** After Sales Service

**REFERENCE ID:** ELE/Q3102

**ALIGNED TO:** NCO-2004/7233.50

Also, called AC repair Technician, this is an after-sales service job for installing and providing support to the air conditioner buyers.

**Brief Job Description:** The individual at work installs the air conditioner and interacts with customers to diagnose the problem and assess possible causes. Once the problem and causes have been identified, the individual rectifies minor problems or replaces faulty modules for failed parts or recommends factory repairs for bigger faults.

**Personal Attributes**: The individual must be willing to work in the field and travel through the day from one customer's premise to another. Punctuality, amenable behaviour, patience, good interpersonal relationship building, trustworthiness, integrity, and critical thinking are important attributes for this job.







Job Details

Qualifications Pack Code	ELE/Q3102		
Job Role	Field Technician: Air Conditioner (Applicable for National Scenarios)		
Credits	TBD	Version number	1.0
Sector	Electronics	Drafted on	07/11/2013
Sub-sector	ctor Consumer Electronics		24/12/2015
Occupation	After Sales Service	Next review date	23/12/2016
NSQC Clearance on	20/07/2015		

Job Role	Field Technician: Air Conditioner  Also called AC Technician		
Role Description	Install the air conditioner, decipher the symptoms and diagnose the problems in the air conditioner by carrying out basic volt ampere test, earthing check and isolating electro-mechanical faults.		
NSQF level	4		
Minimum Educational Qualifications	8 <sup>th</sup> Standard pass, preferably		
Maximum Educational Qualifications	ITI/ Diploma (Electrical/Mechanical/ RAC)		
Prerequisite License or Training	NA		
Minimum Job Entry Age	18 Years		
Experience	Minimum 2 years as Helper for 8 <sup>th/</sup> 9 <sup>th</sup> passed		
Applicable National Occupational Standards (NOS)	Compulsory:  1. ELE/N3101 Engage with customer for service  2. ELE/N3108 Install the air conditioner  3. ELE/N3109 Repair dysfunctional air conditioner  4. ELE/N9901 Interact with colleagues  Optional: NA		
Performance Criteria	As described in the relevant OS units		









Keywords /Terms	Description		
Sector	Sector is a conglomeration of different business operations having similar 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 (NOS)	NOS are occupational standards which apply uniquely in the Indian context.		
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.		
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'		
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.		
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.		
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.		
Knowledge and Understanding	Knowledge and understanding are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.		
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.		
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.		



#### Qualifications Pack for Field Technician: Air Conditioner





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 Skills Qualifications Framework	
NVEQF	National Vocational Education Qualifications Framework	
QP	Qualifications Pack	



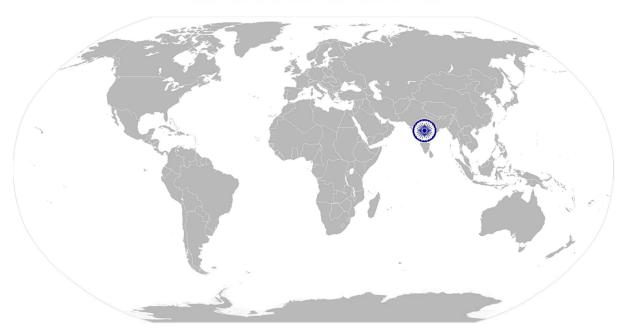






Engage with customer for service

# National Occupational Standard



# **Overview**

This unit is about interacting with customers to understand their requirements and build confidence.









#### Engage with customer for service

Unit Code	ELE/N3101				
Unit Title	Engage with customer for service				
(Task)					
Description	This OS unit is about interacting with customer to understand their requirement with respect to problem in the appliance.				
Scope	This unit/ task covers the following:				
'					
	Interact with the customer prior to visit				
	Interact with customer at their premises				
	Suggest possible solutions to customer				
	Achieve productivity and quality as per company's norms				
Performance Criteria(P	PC) w.r.t. the Scope				
Element	Performance Criteria				
Interact with the	To be competent, the user / individual on the job must be able to:				
customer prior to	PC1. check customer complaint registered at customer care or installation				
visit	schedule				
	PC2. call customer to confirm problem and fix time for visit PC3. greet the customer and confirm the problem registered				
	PC4. be polite and patient when interacting with customer				
	PC5. check about warranty status of appliance and annual maintenance contract				
	PC6. anticipate possible problems to carry tools and parts accordingly				
	PC7. ascertain customer location in order to make the route plan for the day				
Interact with	To be competent, the user / individual on the job must be able to:				
customer at their	PC8. enquire about the symptoms and history of problems in the appliance				
premises	PC9. ask about the age of appliance and status of upkeep				
	PC10. identify the problem based on customer's information				
	PC11. communicate the problems identified and educate on possible reasons PC12. inform about costs involved				
Suggest possible	To be competent, the user / individual on the job must be able to:				
solutions to customer	PC13. discuss the problem(s) identified with customer				
	PC14. suggest possible solutions and costs involved				
	PC15. explain the time required and methodology for servicing necessary				
	PC16. seek customer's approval on further action				
Achieve productivity	To be competent, the user / individual on the job must be able to:				
and quality as per	PC17. accurately assess the problem and solution(s) necessary				
company's norms	PC18. offer most appropriate and cost-effective service as per customer's				
	requirement  PC19 communicate problem effectively in order to secure customer's confidence				
	PC19. communicate problem effectively in order to secure customer's confidence PC20. ensure customer satisfaction and positive feedback				
	PC21. record minimum customer complaints post service				
	PC22. avoid repeat problem post service				
	PC23. prepare most optimum route plan to complete daily target visits				









#### **Engage with customer for service**

ELE/N3101	Engage with customer for service			
Knowledge and Understanding (K)				
A. Organizational Context (Knowledge of the company /organization and its processes)	The user/individual on the job needs to know and understand:  KA1. company's policies on: customer care  KA2. company's code of conduct  KA3. organisation culture and typical customer profile  KA4. company's reporting structure  KA5. company's documentation policy			
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. company's products and recurring problems reported in consumer appliances KB2. how to communicate with customers in order to put them at ease KB3. basic electrical and mechanical modules of various appliances KB4. electronics involved in the type of appliance KB5. models of different appliances and their common and distinguishing features KB6. functionality of different features of appliances and new features KB7. etiquette to be followed at customers premises KB8. precautions to be taken while handhag field calls and dealing with customers KB9. relevant reference sheets, manuals and documents to carry in the field KB10. importance of personal grooming KB11. how to be polite and courteous under all circumstances KB12. importance of maintaining clean surface/work area KB13. when to call customer care and close the call after work is done to customer's satisfaction and documentation is complete			
Skills (S)				
A. Core Skills/ Generic Skills	Writing Skills  The user/ individual on the job needs to know and understand how to:  SA1. complete forms such as work orders, invoices, maintenance records  SA2. note problems on job sheet and details of work done  Reading Skills			
	The user/ individual on the job needs to know and understand how to:  SA3. read warnings, instructions and other text material on product labels, components, etc.  SA4. read job sheets or work orders  SA5. read product and module serial numbers and interpret details such as make, date, availability  Oral Communication (Listening and Speaking skills)			
	The user/ individual on the job needs to know and understand how to:  SA6. receive and ask for clarifications from supervisor on the job requirement SA7. listen carefully to customer and interpret customer's statement of symptoms SA8. communicate in local language SA9. educate and inform customer about product, contractual issues such as warranty, cost of service and module replacement SA10. educate on precautions to be taken in order to avoid recurrence of problem			









ELE/N3101	Engage with customer for service

B. Professional Skills	Decision Making		
•	The user/individual on the job needs to know and understand how to:		
	SB1. follow standard operating procedures while making decisions		
	SB2. take approval from supervisor in case the decision has to be made for		
	exceptions		
	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB3. work with supervisor and co-workers to achieve smooth workflow		
	SB4. work with superiors and co-workers to share knowledge and learning		
	Customer Centricity		
	The user/individual on the job needs to know and understand how to:  SB5. maintain personal grooming		
	SB6. be polite, patient and courteous under all circumstances with all types of customers		
	SB7. decide on the spot on whether interaction of customer with superior is necessary or not		
	SB8. maintain proper etiquette including the appropriate physical distance with customer during conversation, not entering bedroom without permission		
	SB9. put customer at ease and generate customer's confidence		
	Problem Solving		
	The user/individual on the job needs to know and understand how to:		
	SB10. seek inputs at assess the problems		
	Analytical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB11. interpret accurately drawings, wiring and job specifications/instructions		
	Critical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB12. improve work processes		









# **Engage with customer for service**

# **NOS Version Control**

NOS Code		ELE/N3101		
Credits	ТВО	Version number	1.0	
Industry	Electronics	Drafted on	07/11/2013	
Industry Sub-sector	Consumer Electronics	Last reviewed on	24/12/2015	
Occupation	After Sales Service	Next review date	23/12/2016	





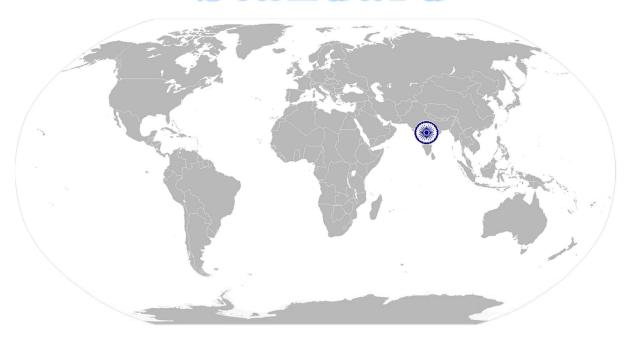






Install the air conditioner

# National Occupational Standard



# **Overview**

This unit is about installing the newly-purchased air conditioner at customer's premises.









#### Install the air conditioner

Unit Cod	le	ELE/N3108			
Unit Title (Task)		Install the air conditioner			
Description		This OS unit is about installing the newly purchased air conditioner at customer's location and make it ready to use.			
Scope		This unit/ task covers the following:			
		Undertake pre-installation site visit			
		Remove packaging and check accessories			
		Place the air conditioner at identified location			
		Check air conditioner's functioning			
		Complete the documentation			
		Interact with supervisor or superior			
		Achieve productivity and quality as per company's norms			
Performa	ance Criteria(P	PC) w.r.t. the Scope			
Element	t	Performance Criteria			
Undertal	-	To be competent, the user / individual on the job must be able to:			
installati	on site visit	PC1. visit the customer's premise before carrying out the installation			
		PC2. interact with the customer to understand where the air conditioner is to be			
		installed, i.e., window, split, high, low, etc.  PC3. check that the location meets structural requirements such as distance from			
		power supply, distance from windows/doors being opened frequently			
		PC4. make the customer aware of any pre-installations/masonry/electrical work to			
		be carried out and educate the customer about requirement of concealed			
		drainage and electric conduits			
		PC5. make necessary markings for placement of indoor and outdoor units			
		PC6. seek appointment for the next visit			
	packaging	To be competent, the user / individual on the job must be able to:			
and chec	k accessories	PC7. remove the air conditioner packaging in which it was shipped to customer			
		from point of sale/ warehouse			
		PC8. check that the product matches the customer order in terms of colour and make			
		PC9. check that all supporting accessories purchased have are there in the pack			
		PC10. check that tools and fitments required for the installation are available			
		PC11. clear up the packaging material waste and dispose as per company's norms			
Place the air		To be competent, the user / individual on the job must be able to:			
conditioner at identified location		PC12. check if pre-installation requirements are met			
		PC13. maintain required distance from door/window			
		PC14. make measurements at the location identified and drill holes ensuring no			
		internal wiring damage takes place			
		PC15. mount the indoor unit and ensure that the screws are fastened securely			
		PC16. place the outdoor unit at a suitable location and attach it firmly to wall/floor			









ELE/N3108		Install the air conditioner	
	DC17	connect the indoor and the outd	

ELE/N3108	install the air conditioner		
	PC17. connect the indoor and the outdoor units using the field copper pipe of		
	appropriate size and interconnecting cables		
	PC18. fill in additional gas if the distance between the indoor and the outdoor units		
	is more than what is recommended		
Check air	To be competent, the user / individual on the job must be able to:		
conditioner's	PC19. make necessary power supply connections		
functioning	PC20. align the air conditioner as per the instructions manual		
runeucini.g	PC21. demonstrate the features and utility		
	,		
Complete the	PC22. explain the precautions to be taken while using the air conditioner  To be competent, the user / individual on the job must be able to:		
documentation	PC23. fill in customer acknowledgement form		
documentation			
	PC24. seek customer's signature		
	PC25. complete other documentation for recording completion of installation		
	PC26. call customer care and inform about job completed		
Interact with	To be competent, the user / individual on the job must be able to:		
supervisor or	PC27. understand the work requirement from superior, periodically		
superior	PC28. report to superior on the work completed		
	PC29. escalate the customer issues and problems that are unresolved in the field		
	PC30. document the work completed on the company ERP software for tracking and		
	future references		
Achieve productivity	To be competent, the user / individual on the job must be able to:		
and quality as per	PC31. remove packaging without damage to the air conditioner unit and accessories		
company's norms	PC32. position air conditioner as per requirements specified in instructions manual		
	PC33. educate customer on importance of proper placing		
	PC34. inform about switching off the unit during voltage fluctuations and use of		
	stabilizers, if necessary		
	PC35. carry and use the correct tools and equipment for installation		
	PC36. operate and check that they are in a safe and stable condition		
	PC37. complete installation in time target given		
	PC38. educate customer on proper operation and maintenance procedures		
	PC39. complete daily field schedule as per instructions/format within the		
	designated time		
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Knowledge and Unders	277		
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. company's policies on: incentives, delivery standards, and personnel		
(Knowledge of the	management, call closure		
company	KA2. company's sales, installation and after sales support policy		
	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		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. installation-site requirements (structural requirements, ventilation, etc.)		
Miowicage	KB2. different types of air conditioners such as window, split, cassette etc.		
	KB3. different features and functionalities of various models		
	KB4. safety precautions to be taken while installing		
	Not. salety precautions to be taken write installing		









ELE/N3108	Install the air conditioner		
	KB5. manual-based procedure of installing the air conditioner		
	KB6. packaging waste disposal procedures		
	KB7. use of test equipment and tools such as multi-meter, oscilloscope		
	KB8. other products of the company		
	KB9. safety rules, policies and procedures		
	KB10. quality standards to be followed		
	KB11. how the refrigeration cycle works		
	KB12. how to operate the air conditioner and use the various features		
	KB13. how to fix various accessories and parts that have accompanied the unit		
	KB14. how to check features and functionalities after installation		
	KB15. how to operate tools such as screw drivers, electric drill for installation		
	KB16. how to make appropriate settings after plugging in		
Skills (S)			
A. Core Skills/	Writing Skills		
Generic Skills	The confinal distance of the state of the st		
	The user/ individual on the job needs to know and understand how to:		
	SA1. document the completed work on computer and paper		
	SA2. note problems on job sheet and details of work done		
	Reading Skills		
	The user/ individual on the job needs to know and understand how to:		
	SA3. read job sheet for installation as registered by customer care/ company's ERP		
	system		
	SA4. read the standard operating procedures for different types of air conditioner		
	SA5. read about different types of air conditioners, their basic electro-mechanical		
	structure and functionality of features		
	Oral Communication (Listening and Speaking skills)		
	The user/ individual on the job needs to know and understand how to:		
	SA6. receive and ask for clarifications from supervisor on the job requirement		
	SA7. listen carefully to customer and interpret customer's statement of symptoms		
	SA8. communicate in local language		
	SA9. educate and inform customer about product, contractual issues such as		
	warranty, cost of service and module replacement		
	SA10. educate on precautions to be taken in order to avoid recurrence of problem		
B. Professional Skills	Decision Making		
	The user/individual on the job needs to know and understand how to:		
	SB1. follow standard operating procedures while making decisions		
	SB2. take approval from supervisor in case the decision has to be made for		
	exceptions		
	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB3. share work load as required		
	SB4. achieve the targets given on installation per day or month		
	Customer Centricity		
	The user/individual on the job needs to know and understand how to:		









#### **ELE/N3108** Install the air conditioner SB5. report on any customer concerns to superiors without delay SB6. maintain personal grooming SB7. be polite, patient and courteous under all circumstances with all types of customers decide on the spot on whether interaction of customer with superior is SB8. necessary or not SB9. maintain proper etiquette including the appropriate physical distance with customer during conversation, not entering bedroom without permission SB10. put customer at ease and generate customer's confidence **Problem Solving** The user/individual on the job needs to know and understand how to: SB11. spot process disruptions and delays SB12. seek inputs at assess the problems **Analytical Thinking** The user/individual on the job needs to know and understand how to: SB13. reduce repetition of errors in installation **Critical Thinking** The user/individual on the job needs to know and understand how to:

SB14. improve work processes









#### Install the air conditioner

# **NOS Version Control**

NOS Code		ELE/N3108		
Credits	TBD	Version number	1.0	
Industry	Electronics	Drafted on	07/11/2013	
Industry Sub-sector	Consumer Electronics	Last reviewed on	24/12/2015	
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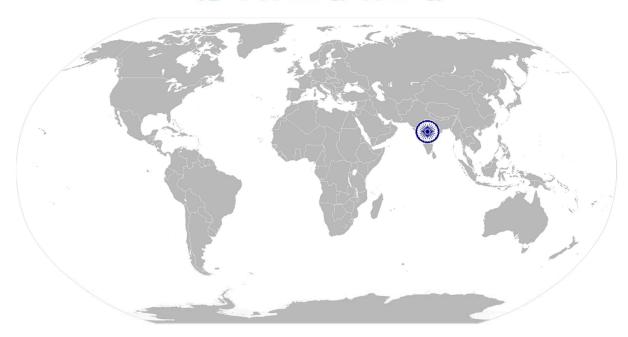






Repair dysfunctional air conditioner

# National Occupational Standard



# **Overview**

This unit is about moving from one customer's premise to another in order to rectify faults in dysfunctional air conditioner as recorded by the customer with customer care unit.









# Repair dysfunctional air conditioner

Unit Code	ELE/N3109		
Unit Title	Repair dysfunctional air conditioner		
(Task)			
Description	This OS unit is about understanding the customer's complaints, identifying the fault		
	and fixing the air conditioner.		
Scope	This unit/ task covers the following:		
	Understand the symptoms in the air-conditioner and identify the fault		
	Replace dysfunctional module in the air conditioner unit		
	Confirm functionality of the repaired unit		
	Achieve productivity and quality as per company's norms		
	Active productivity and quality as per company shorms		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Understand the	To be competent, the user / individual on the job must be able to:		
symptoms in the air-	PC1. understand usage pattern of the air conditioner from the customer		
conditioner and	PC2. diagnose the fault based on customer interaction and initial inspection		
identify the fault	PC3. unplug the unit, carry out basic tests such as power supply inspection, volt		
	ampere test and earthing test power supply, compressor, motors, PCB,		
	condenser		
	PC4. separate and inspect every module of the unit if the fault is not identified		
	through basic tests		
	PC5. send to factory for in depth diagnosis, if problem remains un-identified at site		
Replace	To be competent, the user / individual on the job must be able to:		
dysfunctional module	PC6. replace component at location, if the fault identified is because of damage of		
in the air conditioner	components such as relay or thermostat		
unit	PC7. remove and replace the faulty module with a functional one, either on a		
	second visit or as pre-identified and collected from the service centre, if the		
	problem is at the PCB level or components that cannot be replaced at site		
	PC8. carry out brazing operation at the customer premise or pass the complaint on		
	to a specialist in-charge of handling brazing, if the fault identified is a gas leak		
Confirm functionality	To be competent, the user / individual on the job must be able to:		
of the repaired unit	PC9. reassemble the unit		
	PC10. switch on power supply and confirm that unit is functioning		
	PC11. check that all the modules of the unit work as per specifications		
	PC12. demonstrate and confirm functionality of the unit with customer		
	PC13. educate the customer about cleaning procedures and other best practices		
	PC14. collect necessary payments from the customer, if applicable		
	PC15. fill in customer acknowledgement form		
	PC16. complete other documentation procedures to record complaint closure		
Achieve productivity	To be competent, the user / individual on the job must be able to:		
and quality as per	PC17. ensure damage free handling of the unit		
company's norms	PC18. diagnose the problem accurately and in assigned time		









ELE/N3109	Repair dysfunctional air conditioner
	PC19. identify the problem modules accurately such as the power supply,
	compressor, fan motors, PCB
	PC20. fix the dysfunctional air conditioner in designated time
	PC21. rectify completely to avoid repeat fault in the air conditioner
	PC22. record minimum customer complaints post service
	PC23. meet daily target on attending to number of complaints
	PC24. select the right spares according to recorded complaints at the customer care
	PC25. clearly communicate type of module required to the service centre, if a faulty module is to be replaced
	PC26. secure repairs completion receipt from customer
	PC27. educate customer on air conditioner maintenance and correct practices to
	follow in order to avoid further problems
	PC28. ensure 100% customer satisfaction
	PC29. recover payments as per rate sheet/ communication from customer care
	PC30. sell related products such as new equipment or Annual Maintenance
	Contracts (AMC) as per company policy
Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. company's policies on: incentives, delivery standards and personnel
(Knowledge of the	management and customer service standards
company	KA2. reporting and documentation processes
/organization and	KA3. air conditioner manufacturing capabilities of the organization
. •	KA4. importance of the individual's role in the system
its processes)	KA5. reporting structure
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. different types of air conditioners, e.g., window, split air, cassette
	conditioners and differences in their operation
	KB2. features of different air conditioners of the company
	KB3. functioning of the appliance and its various modules
	KB4. method of air conditioning, its use and functioning of sealed system
	KB5. Basics of types of refrigerants such as R12, R22, R134a, R290, R600a, R410,
	R32 use of different brazing sticks, types of brazing torches and their
	application
	KB6. types of brazing torches, types of fluxes and their application
	KB7. basic electronics (knowledge of components such as diode, transformer, LED,
	photo transistor, capacitor, resistor, inductor, thermisters)
	KB8. functioning of various electromechanical parts of the air conditioner
	KB9. fundamentals of electricity such as ohms law, difference between ac and dc,
	calculation of energy consumption of appliances, understanding of domestic
	wiring, understanding of series and parallel connections
	KB10. troubleshooting knowledge with respect to air conditioners
	KB11. hazards, their causes and prevention/personal safety
	KB12. frequently occurring faults such as poor/no cooling, noisy unit, condensation
	water over flowing
	KB13. components/modules of the air conditioner and their prices









ELE/N3109	Repair dysfunctional air conditioner		
	KB14. energy ratings such BEE rating and concepts of e waste		
	KB15. other products of the company		
	KB16. how to operate computers and software installed		
	KB17. how to operate/use multi-meter, clamp meter, tube cutter, tube bender,		
	vacuum pump, weigh scale, gas cylinder, temperature meter, pressure gauges		
	KB18. how to detect basic electrical faults such as improper/no earthing, defective		
	power cord, connector or internal wiring defect, short/ loose/open contacts,		
	blown fuse		
	KB19. how to diagnose reasons for improper cooling by diagnosing causes such as		
	dirty filter, blocked coil, bent fins, improper damper setting, low capacity of unit, incorrect fan speed setting, any loose/open connections		
	KB20. how to detect defects in the compressor such as electrical faults, compressor over load, jamming/noise		
	KB21. how to identify reasons for improper functioning of compressor such as		
	blown fuse, defective thermostat, defective compressor starting capacitor,		
	defective compressor running capacitor, compressor starting relay defective		
	KB22. how to detect problems in the condenser,		
	tubes touching each other		
	KB23. how to detect other problems such as improper alignment of unit, low		
	refrigerant charge, gas leak, restriction/choke in refrigerant line, moisture in		
	the system etc.		
Skills (S)			
A. Core Skills/	Writing Skills		
A. Core Skills/ Generic Skills			
-	The user/ individual on the job needs to know and understand how to:		
-	The user/ individual on the job needs to know and understand how to:  SA1. document completion note for customer		
-	The user/ individual on the job needs to know and understand how to:  SA1. document completion note for customer  SA2. record completion information in the ERP system		
-	The user/ individual on the job needs to know and understand how to:  SA1. document completion note for customer		
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ELE/N3109	Repair dysfunctional air conditioner
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The user/individual on the job needs to know and understand how to:

- SB1. follow standard operating procedures while making decisions
- SB2. take approval from supervisor in case the decision has to be made for exceptions

#### **Plan and Organize**

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

- SB3. share work load as required
- SB4. achieve the targets given on installation per day or month

#### **Customer Centricity**

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

- SB5. report on any customer concerns to superiors without delay
- SB6. maintain personal grooming
- SB7. be polite, patient and courteous under all circumstances with all types of customers
- SB8. decide on the spot on whether interaction of customer with superior is necessary or not
- SB9. maintain proper etiquette including the appropriate physical distance with customer during conversation, not entering bedroom without permission
- SB10. put customer at ease and generate customer's confidence

#### **Problem Solving**

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

- SB11. spot process disruptions and delays
- SB12. seek inputs at assess the problems
- SB13. match symptoms of the fault noticed to the cause of the problem
- SB14. anticipate and avoid hazards that may occur during repairs because of tools, materials used or repair processes

#### **Analytical Thinking**

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

SB15. reduce repetition of errors in installation

#### **Critical Thinking**

The user/ individual on the job needs to know and understand how to: SB16. improve work processes









# Repair dysfunctional air conditioner

# **NOS Version Control**

NOS Code		ELE/N3109		
Credits	TBD	Version number	1.0	
Industry	Electronics	Drafted on	07/11/2013	
Industry Sub-sector	Consumer Electronics	Last reviewed on	24/12/2015	
Occupation	After Sales Service	Next review date	23/12/2016	











**Interact with colleagues** 

# 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.









#### **Interact with colleagues**

Unit Code	ELE/N9901	
Unit Title	Interact with colleagues	
(Task) 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:	
	<ul> <li>Interact with supervisor or superior</li> <li>Coordinate with colleagues</li> </ul>	
Performance Criteria(F	PC) w.r.t. the Scope	
Element	Performance Criteria	
Interact with supervisor or	To be competent, the user / individual on the job must be able to: PC1. understand work requirements, targets and incentives	
superior	PC2. learn about new product models, their features and functions	
	PC3. report problems identified in the field	
	PC4. escalate customer concerns that cannot be handled on 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. have feedback from a happy and satisfied customer	
Coordinate with	To be competent, the user / individual on the job must be able to:	
colleagues	PC11. resolve inter-personnel conflicts and achieve smooth workflow	
	PC12. receive spares from tool room or stores	
	PC13. deposit faulty modules and tools to stores	
	PC14. pass on customer complaints to colleagues in a respective geographical area	
PC15. assist colleagues with resolving field problems PC16. clearly demarcate roles of each team member		
Knowledge and Understanding (K)		
A. Organizational	The user/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. importance of the individual's role in the workflow KA3. reporting structure	
organization and	icho. Teporting structure	
its processes)		
B. Technical	The user/individual on the job needs to know and understand:	
Knowledge	KB1. how to communicate effectively	
	KB2. how to build team coordination	









#### **Interact with colleagues**

ELE/N9901	interact with coneagues	
Skills (S)		
A. Core Skills/	Writing Skills	
Generic Skills	The user/ individual on the job needs to know and understand how to:  SA1. complete forms such as work orders, invoices, maintenance records  SA2. note problems on job sheet and details of work done  Reading Skills	
	The user/ individual on the job needs to know and understand how to:  SA3. read warnings, instructions and other text material on product labels, components, etc.  SA4. read job sheets or work orders  SA5. read product and module serial numbers and interpret details such as make, date, availability	
	Oral Communication (Listening and Speaking skills)	
	The user/ individual on the job needs to know and understand how to:  SA6. receive and ask for clarifications from supervisor on the job requirement SA7. listen carefully to customer and interpret customer's statement of symptoms SA8. communicate in local language SA9. educate and inform customer about product, contractual issues such as warranty, cost of service and module replacement SA10. educate on precautions to be taken in order to avoid recurrence of problem	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:  SB1. follow standard operating procedures while making decisions  SB2. take approval from supervisor in case the decision has to be made for exceptions	
	Plan and Organize	
	The user/individual on the job needs to know and understand how to:  SB3. work with supervisor and co-workers to achieve smooth workflow  SB4. work with superiors and co-workers to share knowledge and learning  Customer Centricity	
	·	
	The user/individual on the job needs to know and understand how to:  SB5. maintain personal grooming  SB6. be polite, patient and courteous under all circumstances with all types of customers  SB7. decide on the spot on whether interaction of customer with superior is	
	necessary or not  SB8. maintain proper etiquette including the appropriate physical distance with customer during conversation, not entering bedroom without permission  SB9. put customer at ease and generate customer's confidence	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:  SB10. seek inputs at assess the problems	









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	Analytical Thinking
	The user/ individual on the job needs to know and understand how to:
	SB11. interpret accurately drawings, wiring and job specifications/instructions
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB12. improve work processes











# **Interact with colleagues**

# **NOS Version Control**

NOS Code		ELE/N9901					
Credits	TBD	Version number	1.0				
Industry	Electronics	Drafted on	07/11/2013				
Industry Sub-sector	Consumer Electronics	Last reviewed on	24/12/2015				
Occupation	After Sales Service	Next review date	23/12/2016				





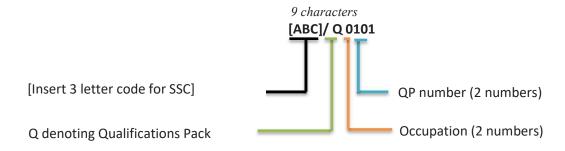




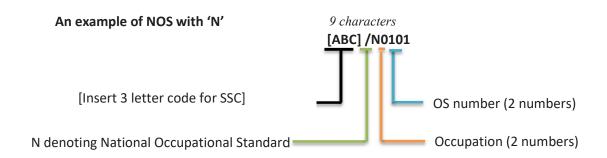
#### **Annexure**

#### **Nomenclature for QP and NOS**

#### **Qualifications Pack**



#### **Occupational Standard**



Back to top...







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	Electronics	ELE
Slash	/	/
Next letter	Whether <b>Q</b> P or <b>N</b> OS	Q
Next two numbers	Occupation code	01
Next two numbers	OS number	01







#### **CRITERIA FOR ASSESSMENT OF TRAINEES**

Job Role: Field Technician: Air Conditioner

**Qualification Pack:** ELE/Q3102

Sector Skill Council: Electronics Sector Skill 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 evaluations 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.
- 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Practical Skills
ELE/N3101 Engage with	PC1. check customer complaint registered at customer care or installation schedule	100	3	1	2
customer for service	PC2. call customer to confirm problem and fix time for visit		4	2	2
	PC3. greet the customer and confirm the problem registered		4	2	2
	PC4. be polite and patient when interacting with customer		4	2	2
	PC5. check about warranty status of appliance and annual maintenance contract		3	1	2
	PC6. anticipate possible problems to carry tools and parts accordingly		4	2	2
	PC7. ascertain customer location in order to make the route plan for the day		3	1	2
	PC8. enquire about the symptoms and history of problems in the appliance		5	2	3







	PC9. ask about the age of appliance and status of upkeep		5	2	3
	PC10. identify the problem based on customer's information		5	2	3
	PC11. communicate the problems identified and educate on possible reasons		5	2	3
	PC12. inform about costs involved		5	2	3
	PC13. discuss the problem(s) identified with customer		6	3	3
	PC14. suggest possible solutions and costs involved		6	3	3
	PC15. explain the time required and methodology for servicing necessary		7	3	4
	PC16. seek customer's approval on further action		6	3	3
	PC17. accurately assess the problem and solution(s) necessary		3	1	2
	PC18. offer most appropriate and cost-effective service as per customer's requirement		3	1	2
	PC19. communicate problem effectively in order to secure customer's confidence		4	1	3
	PC20. ensure customer satisfaction and positive feedback		4	1	3
	PC21. record minimum customer complaints post service		3	1	2
	PC22. avoid repeat problem post service		4	1	3
	PC23. prepare most optimum route plan to complete daily target visits		4	1	3
		Total	100	40	60
ELE/N3108 Install the air	PC1.visit the customer's premise before carrying out the installation		2	1	1
conditioner	PC2.interact with the customer to understand where the air conditioner is to be installed, i.e., window, split, high, low, etc.		2	1	1
	PC3.check that the location meets structural requirements such as distance from power supply, distance from windows/doors being opened frequently	100	2	1	1
	PC4.make the customer aware of any pre- installations/masonry/electrical work to be carried out and educate the customer about requirement of concealed drainage and electric conduits		2	1	1







	PC5.make necessary markings for placement of indoor	2		
<del>-</del>	and outdoor units	2	1	1
!	PC6.seek appointment for the next visit	2	1	1
,	PC7.remove the air conditioner packaging in which it was shipped to customer from point of sale/warehouse	2	1	1
	PC8.check that the product matches the customer order in terms of colour and make	2	1	1
	PC9.check that all supporting accessories purchased have are there in the pack	2	1	1
	PC10.check that tools and fitments required for the installation are available	2	1	1
	PC11.clear up the packaging material waste and dispose as per company's norms	2	1	1
	PC12.check if pre-installation requirements are met	2	1	1
	PC13.maintain required distance from door/window	2	1	1
	PC14.make measurements at the location identified and drill holes ensuring no internal wiring damage takes place	2	1	1
	PC15.mount the indoor unit and ensure that the screws are fastened securely	2	1	1
	PC16.place the outdoor unit at a suitable location and attach it firmly to wall/floor	2	1	1
1	PC17.connect the indoor and the outdoor units using the field copper pipe of appropriate size and interconnecting cables	2	1	1
i	PC18.fill in additional gas if the distance between the indoor and the outdoor units is more than what is recommended	2	1	1
	PC19.make necessary power supply connections	4	1	3
	PC20.align the air conditioner as per the instructions manual	4	1	3
	PC21.demonstrate the features and utility	4	1	3
	PC22.explain the precautions to be taken while using the air conditioner	4	1	3
	PC23.fill in customer acknowledgement form	3	1	2
	PC24.seek customer's signature	2	1	1







	earthing test power supply, compressor, motors, PCB, condenser		4		2
	PC3.unplug the unit, carry out basic tests such as power supply inspection, volt ampere test and		4	2	2
dysfunctional air conditioner	PC2.diagnose the fault based on customer interaction and initial inspection	100	4	2	2
ELE/N3109 Repair	PC1.understand usage pattern of the air conditioner from the customer		4	2	2
		Total	100	40	60
	PC39.complete daily field schedule as per instructions/format within the designated time		2	1	1
	PC38.educate customer on proper operation and maintenance procedures		2	1	1
	PC37.complete installation in time target given	1	1	0	1
	PC36.operate and check that they are in a safe and stable condition		1	0	1
	PC35.carry and use the correct tools and equipment for installation		2	1	1
	PC34.inform about switching off the unit during voltage fluctuations and use of stabilizers, if necessary		2	1	1
	PC33.educate customer on importance of proper placing		2	1	1
	PC32.position air conditioner as per requirements specified in instructions manual		5	2	3
	PC31.remove packaging without damage to the air conditioner unit and accessories		5	2	3
	PC30.document the work completed on the company ERP software for tracking and future references		4	2	2
	PC29.escalate the customer issues and problems that are unresolved in the field		4	1	3
	PC28.report to superior on the work completed		4	1	3
	PC27.understand the work requirement from superior, periodically		4	1	3
	PC26.call customer care and inform about job completed		2	1	1
	PC25.complete other documentation for recording completion of installation		3	1	2







PC4.separate and inspect every module the fault is not identified through basic		4	2	2
PC5.send to factory for in depth diagnost remains un-identified at site	sis, if problem	4	2	2
PC6.replace component at location, if the identified is because of damage of compass relay or thermostat		10	4	6
PC7.remove and replace the faulty mod functional one, either on a second visit identified and collected from the service problem is at the PCB level or compone be replaced at site	or as pre- e centre, if the	10	4	6
PC8.carry out brazing operation at the operation premise or pass the complaint on to a scharge of handling brazing, if the fault in gas leak	pecialist in-	10	4	6
PC9.reassemble the unit		3	1	2
PC10.switch on power supply and confine functioning	m that unit is	3	1	2
PC11.check that all the modules of the oper specifications	unit work as	3	1	2
PC12.demonstrate and confirm function unit with customer	nality of the	4	2	2
PC13.educate the customer about clear procedures and other best practices	ing	4	2	2
PC14.collect necessary payments from t if applicable	he customer,	3	1	2
PC15.fill in customer acknowledgement	form	3	1	2
PC16.complete other documentation pr record complaint closure	ocedures to	3	1	2
PC17.ensure damage free handling of the	ne unit	1	0	1
PC18.diagnose the problem accurately a time	and in assigned	2	1	1
PC19.identify the problem modules accurate the power supply, compressor, fan motor	•	3	1	2
PC20.fix the dysfunctional air conditione designated time	er in	2	1	1
PC21.rectify completely to avoid repeat conditioner	fault in the air	2	1	1







PC22.record minimum customer complaints post service		1		1
PC23.meet daily target on attending to number of complaints		1	0	1
PC24.select the right spares according to recorded complaints at the customer care		1	0	1
PC25.clearly communicate type of module required to the service centre, if a faulty module is to be replaced		2	1	1
PC26.secure repairs completion receipt from customer		2	1	1
PC27.educate customer on air conditioner maintenance and correct practices to follow in order to avoid further problems		3	1	2
PC28.ensure 100% customer satisfaction		2	1	1
PC29.recover payments as per rate sheet/ communication from customer care		1	0	1
PC30.sell related products such as new equipment or Annual Maintenance Contracts (AMC) as per company policy		1	0	1
	Total	100	40	60
PC1. understand work requirements, targets and		_		
incentives		5	2	3
PC2. learn about new product models, their features and functions		5	2	3
PC2. learn about new product models, their features				
PC2. learn about new product models, their features and functions		5	2	3
PC2. learn about new product models, their features and functions PC3. report problems identified in the field PC4. escalate customer concerns that cannot be		5	2	3
PC2. learn about new product models, their features and functions  PC3. report problems identified in the field  PC4. escalate customer concerns that cannot be handled on field	100	5 5 6	2 2 2	3 3 4
PC2. learn about new product models, their features and functions  PC3. report problems identified in the field  PC4. escalate customer concerns that cannot be handled on field  PC5. resolve personnel issues  PC6. receive feedback on work standards and	100	5 5 6 5	2 2 2	3 4 3
PC2. learn about new product models, their features and functions  PC3. report problems identified in the field  PC4. escalate customer concerns that cannot be handled on field  PC5. resolve personnel issues  PC6. receive feedback on work standards and customer satisfaction  PC7. communicate any potential hazards at a	100	5 5 6 5	2 2 2 2 2	3 3 4 3 3
PC2. learn about new product models, their features and functions  PC3. report problems identified in the field  PC4. escalate customer concerns that cannot be handled on field  PC5. resolve personnel issues  PC6. receive feedback on work standards and customer satisfaction  PC7. communicate any potential hazards at a particular location	100	5 5 6 5 5	2 2 2 2 2 2	3 3 4 3 3
PC2. learn about new product models, their features and functions  PC3. report problems identified in the field  PC4. escalate customer concerns that cannot be handled on 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	100	5 5 6 5 5 5	2 2 2 2 2 2	3 3 4 3 3 3
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#### Qualifications Pack for Field Technician: Air Conditioner





PC12. receive spares from tool room or stores		8	3	5
PC13. deposit faulty modules and tools to stores		8	3	5
PC14. pass on customer complaints to colleagues in a respective geographical area		8	3	5
PC15. assist colleagues with resolving field problems		9	4	5
PC16. clearly demarcate roles of each team member		8	4	4
	Total	100	40	60