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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

Introduction

Qualifications Pack – LED Light Repair Technician

SECTOR: ELECTRONICS

SUB-SECTOR: LED LIGHTING

OCCUPATION: LED Light Testing and Quality Assurance

REFERENCE ID: ELE/Q9302

ALIGNED TO: NCO-2004/NIL

LED Light Repair Technician: The LED Light Repair Technician is responsible for mending the non-functional LED light.

Brief Job Description: The individual at work checks the non-functional LED light in a systematic manner to find out the fault; dismantles it; repairs the fault and reassemble the light to make it functional.

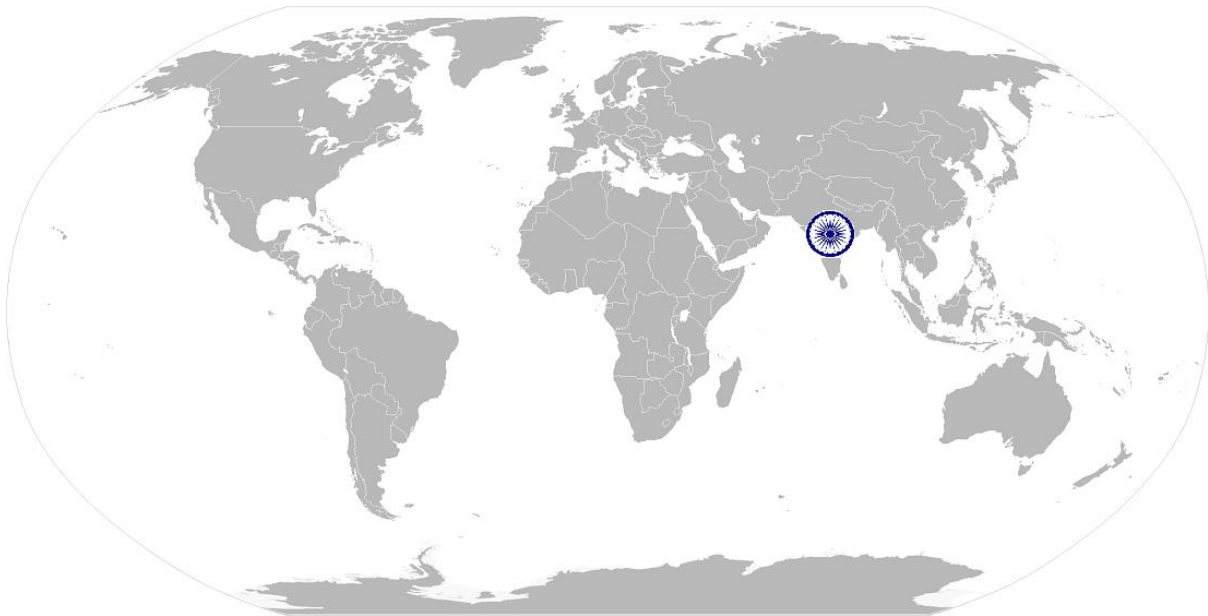
Personal Attributes: The job requires the individual to be self-motivated, inquisitive, analytical with attention to details, able to work as an individual; and goal oriented, and have stamina for working long hours in sitting position.

Qualifications Pack For LED Light Repair Technician

Job Details	Qualifications Pack Code	ELE/Q9302		
	Job Role	LED Light Repair Technician		
	Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
	Sector	Electronics	Drafted on	19/05/14
	Sub-sector	LED Lighting	Last reviewed on	24/06/14
	Occupation	Testing and Quality Assurance	Next review date	24/06/15

Job Role	LED Light Repair Technician
Role Description	Check the non-functional LED Light in as per standard procedure to find out the fault; dismantle the LED Light; repair the fault and reassemble the light to make it functional
NSQF level	4
Minimum Educational Qualifications	ITI
Maximum Educational Qualifications	Diploma
Training	Not Applicable
Experience	1 year experience in LED Light repair
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <ol style="list-style-type: none"> ELE/N9302 Diagnose and repair fault in LED Light ELE/N9919 Work with superiors and colleagues ELE/N9921 Follow safety standards <p>Optional: Not applicable</p>
Performance Criteria	As described in the relevant OS units

National Occupational Standard



Overview

This unit is about diagnosing the fault in the non-functional LED Light and fixing it to make the light operational again.

ELE/N9302

Diagnose and repair fault in LED Light

National Occupational Standard

Unit Code	ELE/9301
Unit Title (Task)	Diagnose and repair fault in LED Light
Description	This OS unit is about diagnosing the fault in the non-functional LED Light and mending it to make the light operational again.
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> • Find and repair component-level fault • Find and repair LED strip-level fault • Achieve productivity and quality standards
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Finding and repairing component level fault	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. connect the non-functional LED Light with the AC source and switch it on</p> <p>PC2. check that there is no loose, de-soldered wires and connections if the light does not switch on</p> <p>PC3. solder wires and make connections in case of loose, de-soldered wires and connections to make the light operational again</p> <p>PC4. dismantle the LED light if no loose, de-soldered wires and connections are found externally</p> <p>PC5. check the LED light engine with DC supply as per the voltage / current requirements of the product</p> <p>PC6. replace the LED light engine if it is found faulty</p> <p>PC7. check the supply unit with AC supply / multimeter to find out the voltage / current output in case LED light Engine is not found defective</p> <p>PC8. check voltage / current output at different sections of the supply unit with multimeter to find out its damaged section in case of no voltage / current output found in supply unit</p> <p>PC9. check the components with multimeter individually of the section where voltage output is found to be less than desired / no output</p> <p>PC10. repair / replace the damaged components / SMPs</p> <p>PC11. check output voltage/current of the supply unit again with multimeter</p> <p>PC12. reassemble the LED light if repaired / replaced supply unit is found okay</p>
Finding and repairing LED strip level fault	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC13. connect the non-functional LED Light with the AC source and switch it on</p> <p>PC14. check how many LED strips are non-functional / damaged from the array of LED strips in the light</p> <p>PC15. remove the glass shell from the LED light</p> <p>PC16. replace the burnt out / damaged LED strips</p> <p>PC17. check the LED array after connecting it with AC source and switching it on</p> <p>PC18. replace the glass shell on the LED Light and close it if all the strips are found operational</p>
Achieving productivity and	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC19. correctly find the root cause of non-functional LED light and repair it in</p>

ELE/N9302

Diagnose and repair fault in LED Light

quality standards	minimum possible time PC20. document the fault diagnosis and repair process as per SOP
Knowledge and Understanding (K)	
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, testing & repairing standards and personnel management KA2. company's standard operating procedures and processes related to LED Luminary product testing and repair KA3. importance of the individual's role in the workflow KA4. reporting structure KA5. safety and quality standards followed in the organization
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. various electronic & electrical components, materials and their specific properties & usages KB2. basics of power electronics and its usages in lighting controls, or LED power supplies and LED drivers KB3. special safety and handling precautions to be taken during LED luminary testing KB4. 5S standards (sorting, setting, standardise, sustain, shining) + safety, security
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	Reading and Writing Skills
	The user/individual on the job needs to know and understand how: SA1. to read values on components SA2. to write LED light fault diagnosing and repair process as per company's specified format
B. Professional Skills	Communication Skills
	The user/individual on the job needs to know and understand how: SA3. to effectively communicate with colleagues about fault diagnosing and repairing methods SA4. to effectively communicate with supervisor to understand the repairing methods of the LED light SA5. to communicate about routinely found faults in LED lights
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB1. analysis of voltage / current output of various sections and components of the supply unit SB2. analysis of the Led light diagram to understand and select sections for fault diagnosis
	Using Tools
	The user/individual on the job needs to know and understand how to: SB3. use multimeter, tester, LCR meter and power analyzer

ELE/N9302

Diagnose and repair fault in LED Light

	Planning
	The user/individual on the job needs to know and understand how: SB4. to plan for fault diagnosis and repair in systematic way
	Problem solving
	The user/individual on the job needs to know and understand how: SB5. to find and use alternate components for damaged components / sections in case of non availability of the same components SB6. to recalibrate the testing tools like multimeter in case it is not working properly

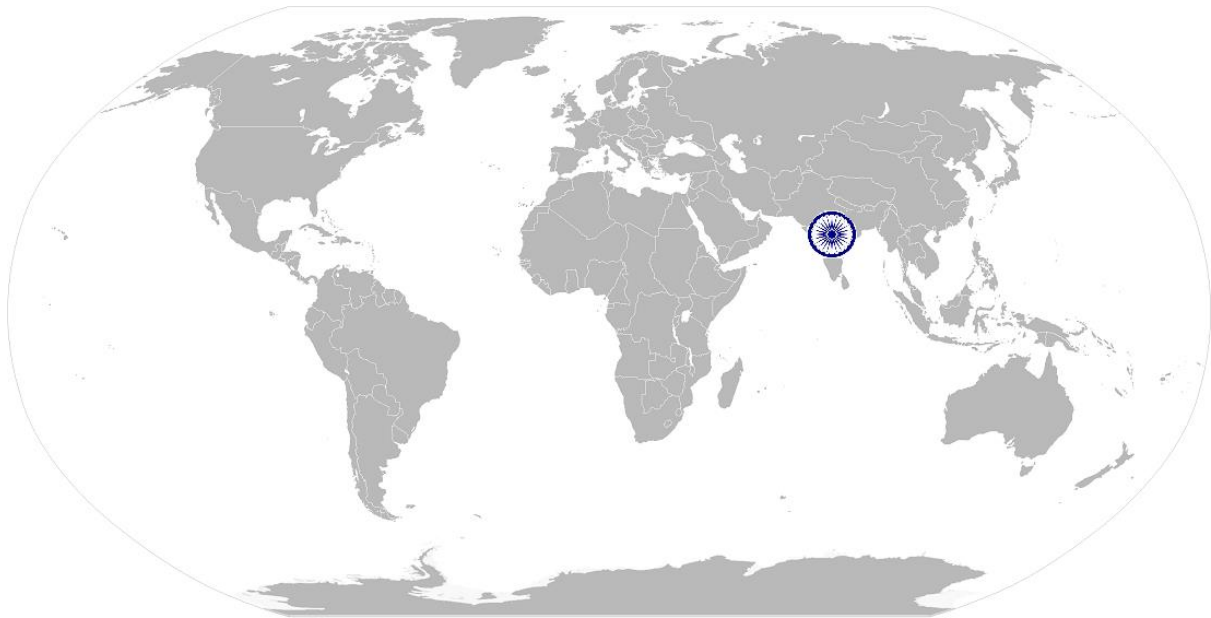
ELE/N9302

Diagnose and repair fault in LED Light

NOS Version Control

NOS Code	ELE/N9302		
Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	19/05/14
Industry Sub-sector	LED	Last reviewed on	24/06/14
		Next review date	24/06/15

National Occupational Standard



Overview

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

ELE/N9919 Work with superiors and colleagues

Unit Code	ELE/N9919
Unit Title (Task)	Work with superiors and colleagues
Description	This OS unit is about communicating, coordinating and maintaining proper relationship with colleagues and seniors in order to achieve smooth work flow
Scope	This unit/ task covers the following: <ul style="list-style-type: none"> • Interact with supervisor or superior • Coordinate with colleagues
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Interacting with supervisor	To be competent, the user/ individual must be able to: <ul style="list-style-type: none"> PC1. understand work requirements by receiving instructions from reporting supervisor PC2. understand standard operating procedure of the company PC3. escalate problems that cannot be handled including repetitive PCB defects, machine failures, potential hazards, process disruptions, repairs and maintenance of machine PC4. report work completed and receive feedback on work done PC5. resolve personnel issues PC6. rectify errors as per feedback and minimize mistakes to zero in future PC7. communicate about process flow improvements, quality of output, product defects received from previous process, repairs and maintenance of tools and machinery as required and find technical solutions on specific issues PC8. handover completed work and deliver the work of expected quality despite constraints
Interacting with colleagues	To be competent, the user/ individual must be able to: <ul style="list-style-type: none"> PC9. collect required spares and raw materials from tool room or stores PC10. deposit unused or faulty materials, parts and tools to stores PC11. assist colleagues where necessary and as per capability PC12. resolve conflicts with colleagues at work to achieve smooth workflow PC13. complete rework in time based on feedback from quality or process departments PC14. put team over individual goals
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: <ul style="list-style-type: none"> KA1. company's policies on: incentives, delivery standards, and personnel management KA2. work flow involved in company's process KA3. importance of the individual's role in the workflow KA4. reporting structure

ELE/N9919

Work with superiors and colleagues

B. Technical Knowledge	The individual on the job needs to know and understand: KB1. how to communicate effectively KB2. how to build team coordination
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	<p>Teamwork and Multitasking</p> <p>The individual on the job needs to know and understand how: SA1. to deliver product to next work process on time SA2. to share work load as required</p>
B. Professional Skills	<p>Decision Making</p> <p>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</p> <p>Reflective Thinking</p> <p>The individual on the job needs to know and understand: SB3. To reduce repetitive errors and improve work process</p> <p>Critical Thinking</p> <p>The individual on the job needs to know and understand: SB4. how to spot process disruptions and delays</p>

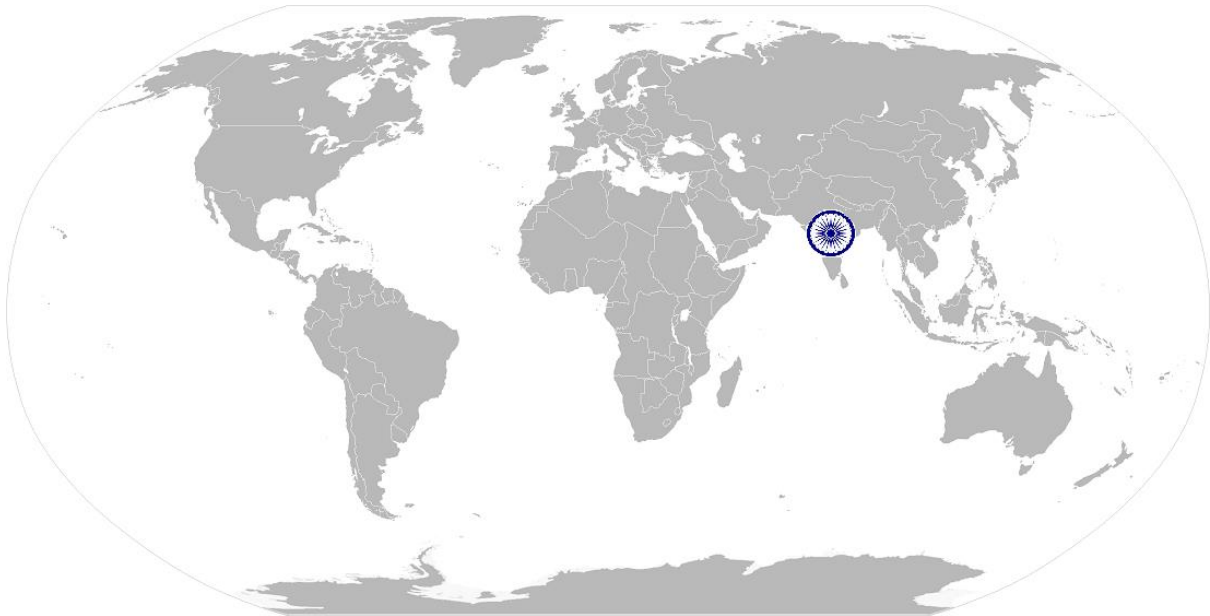
ELE/N9919

Work with superiors and colleagues

NOS Version Control

NOS Code	ELE/N0019		
Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	10/03/14
Industry Sub-sector	Passive Components	Last reviewed on	24/03/14
		Next review date	24/03/15

National Occupational Standard



Overview

This unit is about the worker's commitment towards reporting potential hazards and containing accidents in order to make the work environment safe, healthy and secure, for self and colleagues

ELE/N9921

Follow safety standards

National Occupational Standard

Unit Code	ELE/N9921
Unit Title (Task)	Follow safety standards
Description	This OS unit is about following safety procedures, communicating potential hazards and dangers of accidents on the job
Scope	<p>This unit/ task covers the following:</p> <ul style="list-style-type: none"> • Understand potential sources of accidents • Use safety gear to avoid accidents • Understand the safety procedures followed by the company
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Understanding potential sources of accidents	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. spot and report potential hazards on time</p> <p>PC2. follow company policy and rules regarding hazardous materials</p> <p>PC3. avoid accidents related to use of potentially dangerous chemicals, gases, sharp tools and hazards from machines which involves exposure to possible injuries such as cuts, bites, stings, minor burns, etc.</p> <p>PC4. Handle with care when using an electrical drill and sharp cutting objects</p>
Using safety gear	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC5. understand which safety gear must be used for a particular task</p> <p>PC6. eye, respiratory and hearing protection as per company policy</p> <p>PC7. use safety gear such as respirator, mask, skull caps, gloves, goggles, jacket , etc., as prescribed for the job</p>
Understanding of safety procedures	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC8. comply with standard health and safety procedure followed in the company while handling an equipment and hazardous materials and tools or situations</p> <p>PC9. understand and follow the evacuation procedure properly such as fire drills, emergency evacuation procedures, first aid to self and others, etc., which help in case of an emergency</p>
Following daily safety measure	<p>To be competent, the user/ individual must be able to:</p> <p>PC10. take adequate safety measures while on work to prevent accidents</p> <p>PC11. ensure zero accidents in work</p> <p>PC12. avoid damage of components due to negligence in ESD procedures</p> <p>PC13. ensure no loss for company due to safety negligence</p> <p>PC14. ensure proper machine maintenance, work process achieving quality outputs as per the company standard</p>
Communicating to supervisor	<p>To be competent, the user/ individual must be able to:</p> <p>PC15. improve process flow to reduce anticipated or repetitive hazards</p> <p>PC16. report on mishandling of tools, machines or hazardous materials and on electrical problems that could result in accident</p> <p>PC17. escalate about any hazardous materials or things found in the premises</p> <p>PC18. report about any breach of safety procedure in the company</p> <p>PC19. follow electrostatic discharge (ESD) measures for electronic component safety</p>

ELE/N9921

Follow safety standards

Knowledge and Understanding (K)	
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 handling: harmful chemicals and sharp tools, safety and hazards of machines, fire safety/drill, first aid and, disposal of harmful chemicals and materials, quality standards 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 follow safety procedures while operating hazardous tools and equipment KB4. emergency procedures to be followed such as fire accidents and fire safety education KB5. how to use machines and tools without causing bodily harm KB6. first aid execution KB7. disposal of hazardous chemicals, tools and materials by following prescribed environmental norms or as per company policy
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	Communication Skills
	The individual on the job needs to know and understand how: SA1. to effectively communicate the danger SA2. to understand the quality standard of the company
B. Professional Skills	Reflective Thinking
	The individual on the job needs to know and understand how: SA3. to learn from past mistakes regarding use of hazardous machines, tools or chemicals
	Critical Thinking
	The individual on the job needs to know and understand: SA4. how to spot danger SA5. procedure to follow in the event of a fire or other hazard
	Handling Safety Equipment
	The individual on the job needs to know and understand: SA6. to wear gloves, goggles, masks, caps, shoes, coats, etc. SA7. to use safety equipment such as fire extinguisher during fire accidents
	Decision Making
	The individual on the job needs to know and understand: SA8. importance of reporting potential sources of danger SA9. appropriate actions to be taken in the event of an accident SA10. procedure for disposing of hazardous materials, safely and following environmental guidelines

ELE/N9921

Follow safety standards

NOS Version Control

NOS Code	ELE/N9921		
Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	10/03/14
Industry Sub-sector	Passive Components	Last reviewed on	24/03/14
		Next review date	24/03/15

CRITERIA FOR ASSESSMENT OF TRAINEES			
Job Role	LED Light Repair Technician		
QP #	ELE/Q9302		
Sector Skill Council	Electronics Sector Skills Council of India		
<p>Guidelines for Assessment:</p> <ol style="list-style-type: none"> 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. The assessment for the theory part will be based on knowledge bank of questions created by the SSC. Individual assessment agencies will create <i>unique question papers for theory part for each candidate at each examination/training center</i> (as per assessment criteria below) Individual assessment agencies will create <i>unique evaluations for skill practical for every student at each examination/training center</i> based on this criteria To pass the Qualification Pack , every trainee should score a minimum of 70% in every NOS 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 Allocation

ELE/N9921

Follow safety standards

Element	Performance Criteria	Total Marks (400)	Out Of	Theory	Skills Practical
ELE/N9302 Diagnose and repair fault in LED Light					
Finding and repairing component level fault	PC1. connect the non-functional LED Light with the AC source and switch it on	100	2	1	1
	PC2. check that there is no loose, de-soldered wires and connections if the light does not switch on		2	1	1
	PC3. solder wires and make connections in case of loose, de-soldered wires and connections to make the light operational again		2	1	1
	PC4. dismantle the LED light if no loose, de-soldered wires and connections are found externally		2	1	1
	PC5. check the LED light engine with DC supply as per the voltage / current requirements of the product		2	1	1
	PC6. replace the LED light engine if it is found faulty		3	1	2
	PC7. check the supply unit with AC supply / multimeter to find out the voltage / current output in case LED light Engine is not found defective		3	1	2
	PC8. check voltage / current output at different sections of the supply unit with multimeter to find out its damaged section in case of no voltage / current output found in supply unit		2	1	1
	PC9. check the components with multimeter individually of the section where voltage output is found to be less than desired / no output		3	1	2
	PC10. repair / replace the damaged components / SMPs		3	1	2
	PC11. check output voltage/current of the supply unit again with multimeter		3	1	2
	PC12. reassemble the LED light if repaired / replaced supply unit is found okay		3	1	2
Finding and repairing LED strip level fault	PC13. connect the non-functional LED Light with the AC source and switch it on		5	2	3
	PC14. check how many LED strips are non-functional / damaged from the array of LED strips in the light		5	3	2
	PC15. remove the glass shell from the LED light		5	2	3
	PC16. replace the burnt out / damaged LED strips		5	2	3
	PC17. check the LED array after connecting it with AC		5	2	3

ELE/N9921

Follow safety standards

	source and switching it on				
	PC18. replace the glass shell on the LED Light and close it if all the strips are found operational		5	2	3
Fixing glass shell and packing the final product	PC19. correctly find the root cause of non-functional LED light and repair it in minimum possible time		8	3	5
	PC20. document the fault diagnosis and repair process as per SOP		8	3	5
Achieving productivity and quality of standards	PC25. assemble all the parts as per the product design to create LED luminary		8	3	5
	PC26. assemble the product right first time so that rework is not required		8	3	5
	PC27. meet 100% daily target of defect free assembled LED luminaries		8	3	5
		Total	100	40	60
ELE/N9919 Work with superiors and colleagues					
Interacting with supervisor	PC1. understand work requirements by receiving instructions from reporting supervisor	100	6	2	4
	PC2. understand standard operating procedure of the company		6	2	4
	PC3. escalate problems that cannot be handled including repetitive PCB defects, machine failures, potential hazards, process disruptions, repairs and maintenance of machine		6	2	4
	PC4. report work completed and receive feedback on work done		6	2	4
	PC5. resolve personnel issues		7	3	4
	PC6. rectify errors as per feedback and minimize mistakes to zero in future		7	3	4
	PC7. communicate about process flow improvements, quality of output, product defects received from previous process, repairs and maintenance of tools and machinery as required and find technical solutions on specific issues		7	3	4
	PC8. handover completed work and deliver the work of expected quality despite constraints		7	3	4
Interacting with colleagues	PC9. collect required spares and raw materials from tool room or stores		8	3	5
	PC10. deposit unused or faulty materials, parts and tools to stores		8	3	5

ELE/N9921

Follow safety standards

	PC11. assist colleagues where necessary and as per capability		8	3	5
	PC12. resolve conflicts with colleagues at work to achieve smooth workflow		8	3	5
	PC13. complete rework in time based on feedback from quality or process departments		8	4	4
	PC14. put team over individual goals		8	4	4
		TOTAL	100	40	60
ELE/N9921 Follow safety standards					
Understanding potential sources of accidents	PC1. spot and report potential hazards on time	100	5	2	3
	PC2. follow company policy and rules regarding hazardous materials		5	2	3
	PC3. avoid accidents related to use of potentially dangerous chemicals, gases, sharp tools and hazards from machines which involves exposure to possible injuries such as cuts, bites, stings, minor burns, etc.		5	2	3
	PC4. Handle with care when using an electrical drill and sharp cutting objects		5	2	3
Using safety gear	PC5. understand which safety gear must be used for a particular task		6	3	3
	PC6. eye, respiratory and hearing protection as per company policy		7	3	4
	PC7. use safety gear such as respirator, mask, skull caps, gloves, goggles, jacket , etc., as prescribed for the job		7	3	4
Understanding of safety procedures	PC8. comply with standard health and safety procedure followed in the company while handling an equipment and hazardous materials and tools or situations		10	4	6
	PC9. understand and follow the evacuation procedure properly such as fire drills, emergency evacuation procedures, first aid to self and others, etc., which help in case of an emergency		10	4	6
Following daily safety measure	PC10. take adequate safety measures while on work to prevent accidents		4	2	2
	PC11. ensure zero accidents in work		4	2	2
	PC12. avoid damage of components due to negligence in ESD procedures		4	2	2
	PC13. ensure no loss for company due to safety negligence		4	2	2

ELE/N9921

Follow safety standards

	PC14. ensure proper machine maintenance, work process achieving quality outputs as per the company standard		4	2	2
Communicating to supervisor	PC15. improve process flow to reduce anticipated or repetitive hazards		4	1	3
	PC16. report on mishandling of tools, machines or hazardous materials and on electrical problems that could result in accident		4	1	3
	PC17. escalate about any hazardous materials or things found in the premises		4	1	3
	PC18. report about any breach of safety procedure in the company		4	1	3
	PC19. follow electrostatic discharge (ESD) measures for electronic component safety		4	1	3
		TOTAL	100	40	60

Qualifications Pack For LED Light Repair Technician

Definitions

Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or an area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
Sub-function	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (OS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding	Knowledge and understanding are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.

Qualifications Pack For LED Light Repair Technician

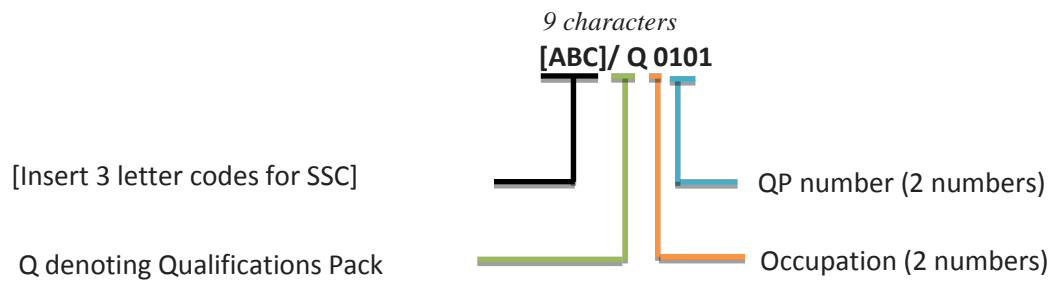
Acronyms

Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Keywords /Terms	Description
IPR	Intellectual Property Rights
NOS	National Occupational Standard(s)
NVQF	National Vocational Qualifications Framework
NSQF	National Qualifications Framework
NVEQF	National Vocational Education Qualifications Framework
QP	Qualifications Pack

Annexure

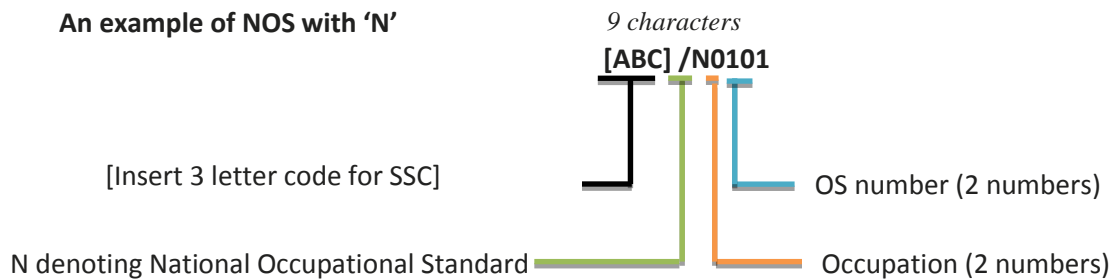
Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard

An example of NOS with 'N'



Qualifications Pack For LED Light Repair Technician

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

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

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