



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR POWER SECTOR

What are Occupational Standards(OS)?

- OS describe what individuals need to do, Understand 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 Understandledge and understanding

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Introduction

Qualifications Pack-Electrician Domestic Solutions

SECTOR: POWER

SUB-SECTOR: DISTRIBUTION DOWNSTREAM

OCCUPATION:ELECTRICIAN

REFERENCE ID: PSS/Q6001

ALIGNED TO:NCO-2015/NIL

Brief Job Description: An Electrician does all types of wiring for households, is involved in troubleshooting and repair of electrical faults in existing wiring and other activities such as troubleshooting, replacing, repairing and maintaining common electrical equipments such as ceiling fans, tube light fittings, electric iron, geyser, motors, inverters, stabilizers water pumps etc.

Personal Attributes:The job requires the individual to have good physical strength, strong hands, ability to work for long working hours/nights, good eye visibility and ability to communicate to customer and resolve their problems. The individual should be ethical and well behaved.





Qualifications Pack Code	PSS/Q6001		
Job Role	Electri	cian Domestic Solutio	ons
Credits(NSQF)	TBD	Version number	1.0
Sector	Power	Drafted on	04/11/2015
Sub-sector	Distribution Downstream	Last reviewed on	25/07/2017
Occupation	Electrician	Next review date	25/07/2021
NSQC Clearance Date	Not Applicable		

Job Role	Electrician Domestic Solutions
Role Description	Electricianscarry out all sorts of troubleshooting in electrical circuits of domestic wiring, fault repair, alterations, maintenance & repair of electrical equipment installed in households.
NSQF level	3
Minimum Educational Qualifications	8 th Pass
Maximum Educational Qualifications	Not Applicable
Prerequisite License or Training	Not Applicable
Minimum Job Entry Age	18 Years
Experience	Not Applicable
Applicable National Occupational Standards (NOS)	 PSS/ N 6001Types of House wiring and fault repair in house wiring PSS/ N 6002 Mains, distribution, controls, circuits and protection in house wiring PSS/ N 6003 Maintenance & Repair of house hold electrical gadgets PSS/N6005 Customer relationship skills PSS/ N 2001 Use basic health and safety for power related work PSS/ N 1336 Work effectively with others
Performance Criteria	As described in the relevant OS units



Qualifications Pack For Electrician Domestic Solutions



	Keywords /Terms	Description
	Sector	Sector is a conglomeration of different business operations having similar businesses
		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.
	Vertical	Vertical may exist within a sub-sector representing different domain areas or the client
		industries served by the industry.
Ī	Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an
		industry.
Ī	Function	Function is an activity necessary for achieving the key purpose of the sector,
		occupation, or 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-functions	Sub-functions are sub-activities essential achieving the objectives of the function.
ŀ	Job role	Job role defines unique set of functions that together form a unique employment
		opportunity in an organization.
Ī	Occupational	OS specify the standards of performance an individual must achieve consistently while
	Standards (OS)	carrying out a function at the workplace. Occupational Standards as set of
		competencies is applicable both in Indian and overreaching global contexts.
	Performance Criteria	Performance Criteria defined for a task are statements that together specify the
		standard of performance while carrying out the task.
	NOS	NOS are National Occupational Standards which apply uniquely in Indian context.
Ī	Qualifications Pack	Qualifications Pack Code is a unique reference code that identifies a qualifications
	Code	pack.
Ī	Qualifications	Qualifications Pack comprises set of OS, together with the educational, training and
	Pack(QP)	other criteria that are required to perform a job role satisfactorily at workplace. A
		Qualifications Pack is assigned a unique qualification pack code for clear identification.
Ī	Knowledge and	Knowledge and Understanding are statements which together as a set specify the
	Understanding	technical, generic, professional and organization specific Knowledge that an individual
		needs to possess in order to perform and meet the required standards consistently.
	Organizational	Organizational Context includes the way the organization is structured and how it
	Context	operates. It includes elements of operational Knowledge contents defined in relation
		to functioning of an organization that a skilled professional need to possess specific to
		its precise areas of responsibility.
	Technical Knowledge	Technical Knowledge is the specific domain Knowledge needed to accomplish the task
		in combination with other competencies. It is usually coined with specifically
		designated roles and responsibilities.
L		



Qualifications Pack For Electrician Domestic Solutions



Acronyms

Keywords /Terms	Description
Α	Ampere
AC	Alternating Current
ACB	Air Circuit Breaker
ACSR	Aluminium Conductor Steel Reinforced (Steel Cored Aluminium Conductor)
BIS	Bureau of Indian Standards
CGRF	Consumer Grievance Redressal Forum
CPRI	Central Power Research Institute
СТ	Current Transformer
DC	Direct Current
DISCOM	Distribution Company
DP	Di-Pole (Double Pole)
DT	Distribution Transformer
E/F	Earth Fault
ELCB	Earth Leakage Circuit Breaker
GI	Galvanized Iron
HV	High Voltage
HVDS	High Voltage Distribution System
Hz	Hertz (Unit of Frequency)
1	Current
IE Act	Indian Electricity Act 2003
IS	Indian Standard
KV	Kilo Volt
KVA	Kilo Volt Ampere
KW	Kilo Watt
KWh	Kilo Watt hour
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LV	Low Voltage
MCB	Miniature Circuit Breaker
N	Neutral
O/C	Over Current
Р	Phase / Power
PCC	Prestressed Cement Concrete Pole
PF	Power Factor
PVC	Poly Vinyl Chloride
RCD	Residual-Current device
REC	Rural Electrification Corporation
SEB	State Electricity Board
T/F	Transformer
TTB	Test Terminal Block
V	Voltage
XLPE	Cross Linked Poly Ethylene Cable

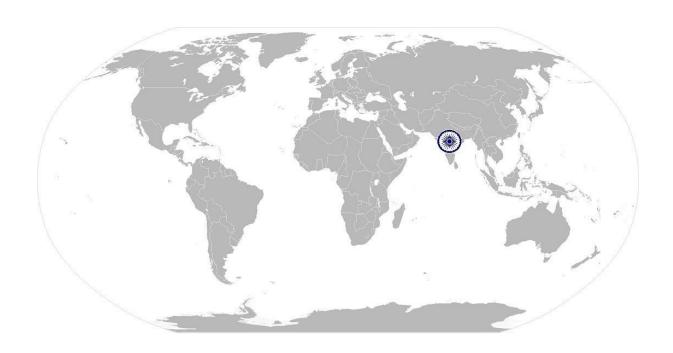






Types of House wiring and fault repair in house wiring

National Occupational Standard



Overview

This unit is about the different types of wiring carried out in a house and activities performed by an Electrician (Domestic) ininitial stages while taking uper ection, trouble shooting and fault repair in house wiring.



National Occupational Standards



PSS/N6001	Types of House wiring and fault repair in house wiring

Unit Code	PSS/N6001
Unit Title (Task)	Types of House wiring and fault repair in house wiring
Description	An Electrician must have good Knowledge of different types of wiring that is being carried out according to the budget of house owner. Skills to utilize the resources-best design, latest technology and longevity of house wiring in best possible way thatis also cost effective keeping the protection of wiring, house hold gadgets and property.
Scope	 This unit/task covers the following: Develop various types of house wiring planning and drawings/layouts according to specific situation Wiring selection, size, ratings of cables, accessories optimization & forecasting Common electrical wiring faults, identification and repair of wiring of residential and commercial units Working safely

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

Element	Performance Criteria
Develop various types of house	The user/individual on the job needs to:
wiring planning and	PC1. Develop circuit and wiring diagram and electrical signages,
drawings/layouts according to	code specifications to plan wiring layouts, consumption points
specific situation	accurately, as may be required
	PC2. Use various types of tools, their functions and application for
	carrying out work
	PC3. Understand rating and current earrying capacity of wires,
	cables, fuse, switches, sockets, WCBs, ELCBs and other
	electrical accessories
	PC4. Lay conduit pipe concealed and open wiring, batten, casing-
	capping and temporary cleat wiring
Wiring selection , size, ratings of	The user/individual on the job needs to:
cables, accessories optimization &	PC5. Implement system in the most economical way
forecasting	PC6. Ensure correct requirement of wires, cables, fuse, switches
	and other electrical accessories foroptimal expenditure
	PC7. Ensure wiring and points selected in wiring are according to
	load growth in future
	PC8. Understand use of under-voltage protective devices, choice of
	setting of protective devices, labelling of protective devices,
	switches and terminals
	PC9. Understand insulation resistance of all live conductors to
	earth, insulation resistance between live conductors
	PC10. Implement methods of protection against electric shock
	PC11. Ensure selection of equipment appropriate to external
	influences, access to switchgear and equipment, presence of







PSS/N6001 Types of Hous	e wiring and fault repair in house wiring
	warning signs and danger notices PC12. Use updated technology products and take their ageing into
	consideration
Common electrical faults and repair	The user/individual on the job needs to:
	PC13. Inspect fault locating points e.g. fuse blown, MCB, RCD trip or
	short circuit location in wiring circuit
	PC14. Ensure open circuit due to overheated switches, socket and
	wires in control board due to loose contact and overload PC15. Check polarity to ensure all switches are connected in phase
	PC15. Check polarity to ensure all switches are connected in phase conductors
	PC16. Check equal distribution of load on three phase wiring in large
	residential and commercial units
	PC17. Check the color coding, connection and identification of
	conductors, cables and wires
	PC18. Check routing of cables, proper selection of conductors, wires
	and connectors and connection of single pole devices
Working safely	The user/individual on the job needs to: PC19. work safely at all times, complying with health and safety
	legislation, regulation and other relevant guidelines
	PC20. Adhere to procedures for safety to wear PPE's
	PC21. Ensure that all tools & tackles, fittings, accessories etc. are in
	safe and usable condition
	PC22. Ensure work area is cleanand safe from hazards before and
	after the job is completed
Knowledge and Understanding (K)	
	The user/individual on the job needs to know and understand:
A. Organizational Context	KA1. Job responsibility/ duties and standar operating procedures, if
	any
	KA2. Escalation matrix and procedures for reporting work and
	employment related issues







B. Technical Knowledge	The user/individual on the job needs to know and understand:
	KB1. Basic elements of electricity, voltage, current, resistance,
	power, energy, and how electricity flows
	KB2. Basic Knowledge of electrical curcuits drawings and layouts
	KB3. Wires and cables, their current carrying capacity and their
	usage
	KB4. Standard procedures followed in house wiring
	KB5. Ratings as per technical terminology of control switches, MCB,
	ELCB, RCD electrical accessories and appliances used in house

Types of House wiring and fault repair in house wiring

wiring, their purpose and functioning
KB6. How to plan the work correctly using various safety measures.
work planning: location, material required and sequence of tasks

KB7. All types of conceal, open wiring, size of conduit pipe, batten and casing-capping required for each circuit

KB8. Depth of groove, channel size, clamping, boxes, hole pass on walls, pre lanter fittings and hooks on ceiling etc. Knowledge of inserting steel wire to drag the bunch of wires through conduit pipe

KB9. Tools and tackles used for house wiring e.g. tool's bag containing combination plier, cutter, screw drivers, hammer, chisel, drill machine, wrench set, hacksaw etc. importance of tools and equipment to be kept in a safe and usable condition

KB10. Specific health and safety precautions which must be taken when carrying out indoor and outdoor wiring, associated hazards, working at heights and PPE's must be worn

KB11. Basics of power regulations and safety requirments as per

Skills (S)			
A. Core Skills/ Generic Skills	Writing Skills		
	The user/ individual on the job needs to know and understand how to: SA1. Note the information communicated by the customer SA2. Route marking on walls SA3. Note down observations (if any) related to the operation		
	Reading Skills		
	l 		

The user/individual on the job needs to know and understand how to: SA4. Read and interpret the process required for different types of drawingsi.e. single line diagram, schematic diagram, layout of building/house

SA5. Read and interpret the flowchart of all parts of house wiring SA6. Read and interpret the process required for different types of

wiring Ensures:

- a. Conduit wiring
- b. CTS clip wiring or batten wiring
- c. Casing and capping
- d. Cleat wiring







PSS/N6001 Types of Hou	se wiring and fault repair in house wiring
	SA7. Read manuals and documents to understand the product-details & how they can be used
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA8. Discuss task lists, schedules and activities with the customer/supervisor SA9. Effectively communicate with the team members SA10. Attentively listen and comprehend the information given by the customer/supervisor/contractor SA11. Communicate clearly with the customer on the issues faced during query/fault
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. Follow customer/contractor rule-based decision making process SB2. Take decision with systematic see of actions and/or response Plan and Organize
	The user/individual on the job needs to know and understand:
	SB3. Planning and organization of tasks to meet deadlines
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. Build customer relationships and use customer centric approach
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. Seek and comprehend operation related inputs for clarification SB6. Find ways of modifying difficult operating stages to make themoperation friendly
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB7. Plan layout of wiring to achieve the shortest and most reliable path SB8. Work systematically and logically to resolve the issues and identify causation and anticipate unexpected results
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB9. Critically evaluate operation parameters in relation to product features intended SB10. Develop holistic and comprehensive profile of products based on segregated discrete process stages of blank forming
	processes







Types of House wiring and fault repair in house wiring

NOS Code		PSS/N6001		
Credits (NSQF)	TBD	Version number	1.0	
Industry	Power	Drafted on	04/11/2015	
Industry Sub-sector	Distribution Downstream	Last reviewed on	25/07/2017	
Occupation	Electrician	Next review date	25/07/2021	



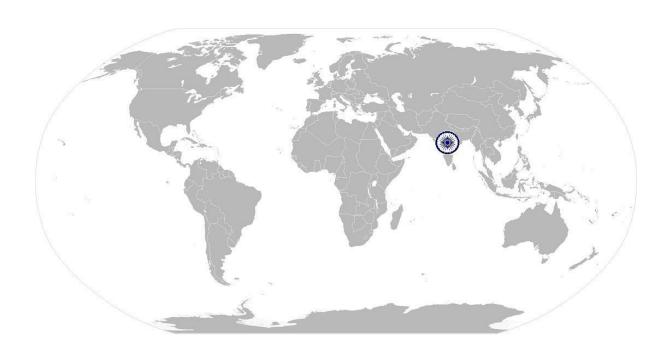






Mains, distribution, controls circuits and protection in house wiring

National Occupational Standard



Overview

This unit is about the Ensure activities performed by a Household electricianformains, distribution, controls, circuits and protection in house wiring. Laying of earth connection



National Occupational Standards

PSS/N6002



PSS/N 6002

Unit Code

Mains, distribution, controls circuits and protection in house wiring

	1 33/110002		
Unit Title (Task)	Mains, distribution, controls circuits and protection in house wiring		
Description	The Ensureof mains, distribution board, junction box, switches, lamp holders, fittings, plugs, sockets and protective devices like fuses, MCB, ELCB,RCD etc. and earthingin the best possible manner in domestic houses		
Scope Performance Criteria(PC) w	 This unit/task covers the following: Ensure of mains, distribution board and protection devices Ensure of new power points, extension boards Ensure of protective devices Types of earthing, procedure to lay and its connection in house wiring. Ensure of electrical appliances Types and use of test instruments in house wiring 		
Element Ensure of mains, distribution board and protection devices	Performance Criteria The user/individual on the job needs to: PC1. Understand standard location of main board Ensure for utility's service line connection PC2. Understand layout of main switch, circuit breakers require at main board PC3. Install controlling and protection devices for different circuits being used for lighting and power loads at each floor or portion		
Ensure of new power points, extension boards.	The user/individual on the job needs to: PC4. Understand types of conduit, batten, underground and open wiring PC5. Locate and mark the position of conduit pipe Ensures, connections into the structures with proper equipments like measuring tape, hammer, saw, drill machines etc. PC6. Cut openings in structures to accommodate conduit pipes or pipe fittings, using hand or power tools PC7. Read plan Ensure around obstructions like electrical wiring, gas fittings etc. PC8. Lay conduit pipe with clamps PC9. Install brackets and hangers to support electrical equipment PC10. Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as tubelights, lamps, chandliers, regulators switches, relays and circuit breaker panels PC11. Lay and pull wires through conduits and through holes in walls, ceiling, lanters and floors PC12. Join and connect wire to fixtures and components to form circuits PC13. Prepare extended line for additional points with bearing capacity of existing system or augment/replaceexisting lines to with hold the additional load		







Mains, distribution, controls circuits and protection in house wiring

Ensure of protective	The user/individual on the job needs to:
devices	PC14. Install the protective device i.e. fuse, MCB, RCCB, RCD, MCCB's ratings as
	per the load
	PC15. Ensure proper working and functioning of all protective devices that are
	necessary to save lives of human, livestock, animals through earthing
	diagrams (TT)
	PC16. Ensure fuse, switch or circuit breaker is not placed in an earthed neutral
	conductor and are wired only in the phase conductor only
	PC17. Ensure all connections are made properly, tightened and color coding
	PC18. Ensure that the correct type, size and current-carrying capacity of cables
	is chosen to bear the load
	PC19. Ensure that all accessible points which may be switched on/off must be
	easily approached by the users and made as per CEA guidelines standerds
Types of earthing,	The user/individual on the job needs to:
procedure to lay and its	PC20. Understand types of earthing plate and pipe earthing lay out location.
connection in house	PC21. Understand importance of earth connection with household gadgets and
wiring.Ensure of electrical	equipments
appliances	PC22. Understand procedure of earth connection with appliance, sockets main
	board and distribution board
	PC23. Use of devices available in market such as Timers, impulse relay,
	programmable switch, twilight switch, movement detector
	PC24. Ensure and assembling of various type, design and capacity fans, tube
	lights, LED Lights, bulbs, lamps, doorbells, switches, geysers, inverters,
	exhaust fan, safety alarms, decorative lights and chandliers
	PC25. Ensure of various size and capacity water pump motors according to the
	load with their control circuit of water level in tank
Types and use of test	The user/individual on the job needs to:
instruments in house	PC26. Make connections and operate instruments to check the healthiness of
wiring	house wiring in terms of leakage insulation resistance
	PC27. Operate instruments to check the continuity, open circuit, short circuit and load flow
	PC28. Operate instruments to check the earth resistance
	rezo. Operate instruments to check the earth resistance
KnowledgeandUnderstandin	g (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. Job responsibilities/duties and standard operating procedures
	KA2. Escalation matrix and procedures for reporting work and employee
	related issues







B. Technical

Knowledge

Mains, distribution, controls circuits and protection in house wiring

The individual on the job needs to know and understand:

KB1. Electricity, power, energy mains and distribution circuits

	KB2. Product, their ratings, current carrying capacity, color coding, loading	
	capacity and their connection in case of extension/augmentation in	
	existing system	
	KB3. Standard procedure to lay pipe and plate earthing	
	KB4. Laying of earth wire conductor in wiring and their connections	
	KB5. Laying staircase, corridor, electric alarm, inverter and other related circuits	
	using push button, two way, door and limit switches	
	KB6. Laying communication cables like network, TV, radio, telephone with their	
	accessories fittings and ensure quality of connections	
	KB7. Power equipment tools and ability to operate proficiently	
	KB8. Test instruments like test lamp, multimeter, neon tester, clamp on mete insulation and earth megger and ensure safe usage	
	KB9. Tools and tackles used for house wiring, importance of tools and	
	equipment to be kept in a safe and usable condition	
	KB10. Specific health and safety precautions which must be taken when carrying	
	out indoor and outdoor wiring, associated hazards, working at height and	
	PPE's must be worn	
Skills (S)		
A. Core Skills/ Generic	Writing Skills	
Skills	The user/ individual on the job needs to know and understand how to:	
	SA1. Note the information communicated by the customer & note down	
	observations (if any) related to the operation	
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	Reading Skills	
	Reading Skills The user/individual on the job needs to know and understand how to: SA2. Read and interpret the process required for different types of wiring	
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Mains, distribution, controls circuits and protection in house wiring

The user/individual on the job needs to know and understand how to: SB1. Follow customer/contractor rule-based decision making process SB2. Take decision with systematic course of actions and/or response Plan and Organize The user/individual on the job needs to know and understand: SB3. Planning and organization of tasks to meet deadlines Customer Centricity The user/individual on the job needs to know and understand how to: SB4. Build customer relationships and use customer centric approach Problem Solving The user/individual on the job needs to know and understand how to:
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SB5. Seek and comprehend operation related inputs for clarification
SB6. Find ways of modifying difficult operating stages to make it operation friendly
Analytical Thinking
The user/individual on the job needs to know and understand how to:
SB7. Plan layout of wiring, to become shortest and reliable path
SB8. Work systematically and logically to resolve the issues and identify
causation and anticipate unexpected results
Critical Thinking
The user/individual on the job needs to know and understand how to:
SB9. Critically evaluate operation parameters in relation to product features intended
SB10. Develop holistic and comprehensive profile of products based on segregated discrete process stages of blank forming processes



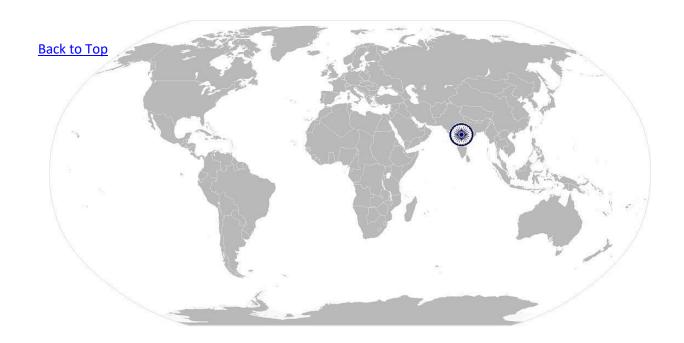




Mains, distribution, controls circuits and protection in house wiring

NOS Code	PSS/N6002		
Credits (NSQF)	TBD	Version number	1.0
Industry	Power	Drafted on	04/11/2015
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Occupation	Electrician	Next review date	25/07/2021

NOS Version Control



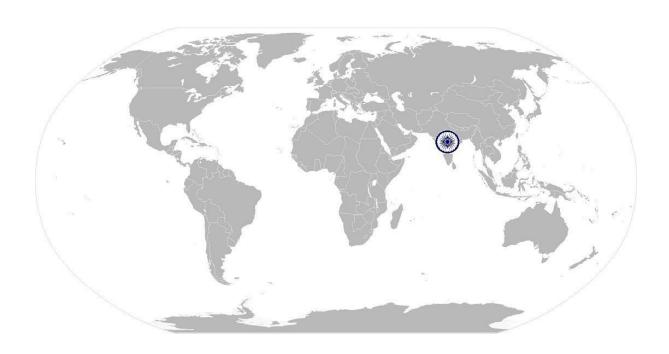






PSS/N 6003 Maintenance & Repair of house hold electrical gadgets

National Occupational Standard



Overview

This unit is about the Maintenance & repair of house hold gadgets and equipment like electric Iron (Press), Kettle, Room heater, hot plate, toaster, Mixer Grinder, table lamp, Ceiling & table fan, exhaust fan, desert cooler, Geyser, water pump, FL tube, lamps fitting etc.by a Household electrician.







Maintenance & Repair of house hold electrical gadgets

Unit Code	PSS/N6003		
Unit Title (Task)	Maintenance & Repair of house hold gadgets		
Description	After Ensure of house hold gadgets, maintenance is necessary for the system's healthy, long and safe life		
Scope	 This unit/task covers the following: Inspection& Testing Types of single and three phase motors Types of heating element, thermal relays and insulation Repair and maintenance of household electrical appliances Repair and maintenance of roof top solar panel 		
Performance Criteria(PC) w.i	r.t. the Scope		
Element	Performance Criteria		
Inspection& Testing	The user/individual on the job needs to: PC1. Understand drawings, circuit diagrams and electrical code specifications of the electrical equipment and gadgets PC2. Understand the capacityin kW, load in Amperes and power consumption in kWH for each appliance PC3. Check connection of equipment and status of tripping device		
	PC4. Ensure presence of appropriate devices for isolating and switching		
Types of Single phase motors Types of heating element	The user/individual on the job needs to: PC5. Operate principle of single phase motor, various types of motors like self start, capacitor start, capacitor run, universal motors and their applications andfunctions of condenser PC6. Understandhow a rotating field is developed in single phase motor PC7. Understand the significance of the number of poles in motor winding for rpm, speed and connections for change of direction PC8. Checkinsulation resistance of motor winding with live conductors to earth and between live conductors PC9. Various parts of motors, pumps and their functions like ball bearings, cooling fans, fins and bushes PC10. Various types of winding wires, their gauge and insulating materials for motor winding The user/individual on the job needs to:		
Types of heating element, thermal relays and	The user/individual on the job needs to:		
insulation	PC11. Understandmaterial used to make varioustypes of heating elements like nicrome, kanthal, eureka etc., various shape, size and capacity of heating elements according to applications and usages PC12. Understandtypes of thermal insulations used in electrical gadgets like mica, asbestos, ceramics, glass wool etc.		







	PC13. Understand about timers (motorized, mechanical), thermal relays,
	bimetallic strips
Repair and maintenance	The user/individual on the job needs to:
of small electrical	PC14. Ensure preventive maintenance, regular cleaning, oiling, greasing of
appliances.	household gadgets like fans, desert cooler, water pump motorsetc.
	PC15. Ensure replacement of damaged switches, MCB, fan- capacitor, regular lighting points i.e. holder, choke, starters, water coolers and their pum motor
	PC16. Ensure regular maintenance of electrical equipment's like- iron, toaste induction-plate & cooker.
	PC17. Ensure regular maintenance of doorbells, FL tube starters & chokes PC18. Preventative maintenance of batteries
	PC19. Ensure solderingof winding wires, cables and their joints in electrical gadgets
Repair and maintenance	The user/individual on the job needs to:
of roof top solar System	PC20. Verify system grounding and measure insulation resistance
	PC21. Clean solar panels for removal of dust, bird droppings, pollen, leaves, branches etc. as per maintenance schedule
	PC22. Ensure all electrical connections as per specification, measure and record DC voltages and currents and identify the faults in the system
	PC23. Check for working condition of theses, circuit breakers and all cables for loose connections
	PC24. Take adequate precautionary measures while handling electrical syst adhering to relevant health and safety standards
	PC25. Understand that if reason of error is not clear, do not try to fix anythi and call OEM repair and maintenance team
nowledgeandUnderstandin	g (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. Job responsibilities/duties and standard operating procedures
	KA2. Escalation matrix and procedures for reporting work and employemen
	related issues







PSS/N6003	B Ma	Maintenance & Repair of house hold electrical gadgets			
В.	Technical	The indiv	he individual on the job needs to know and understand:		
	Knowledge	KB1.	Basic electricity voltage, current, resistance, power, series and parallel circuits		
		KB2.	Products, their ratings as per name plate signs and technical terminology		
		KB3.	Types of heating elements used in domestic appliances, strips, round and		
			flat conductors (nicrome, kental, eureka) open, in tube, engulfed with		
			thermal insulations like mica, asbestos, ceramics etc.		
		KB4.	Single phase motor, their operating principle, armature and rotor design, significance of number of poles in motor winding, connection of starting and running windings, rpm calculation, cooling system		
		KB5.	Gun metal bushing, ball bearing size and where to apply machine oil, grease at rotating parts of domestic appliances		
		KB6.	How to operatemeasuring instruments proficiently i.e. ohm meter, ammeter, voltmeter, clamp on meter, multi meter		

KB7. Functioning and use of house hold gadgets, their tripping circuits, thermal bimetalic relays, timers (mechanical, motorized and thermal). their current carrying capacity, size of leads, size of conductor
 KB8. Inverter, their circuit connections, how power backup develop in case of

supply failure, trickle charging, checking of battery status and their schedule checkups

KB9. Specific health and safety precautions which must be taken when carrying out repair and maintenance, a sociated hazards, working at heights and PPE's must be worn

KB10. Service warranty of electrical gadgets, opening of company's seal and authorization

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A. Core Skills/ Generic Skills

Writing Skills

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

- SA1. Note the information communicated by the customer
- SA2. Note down observations (if any) related to the operation/maintenance

Reading Skills

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

- SA3. Read and interpret the process required for different types of manuals for maintenance
- SA4. Read and interpret the flowchart of all parts of an assembly
- SA5. Read manuals and documents to understand the product-details & how they can be used

Oral Communication (Listening and Speaking skills)

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

- SA6. Discuss task lists, schedules and activities with the customer/supervisor
- SA7. Effectively communicate with the team members
- SA8. Attentively listen and comprehend the information given by the customer/supervisor/contractor
- SA9. Communicate clearly with the customer on the issues faced during







Maintenance & Repair of house hold electrical gadgets

	query/fault			
B. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to:			
	SB1. Follow customer/contractor rule-based decision making process			
	SB2. Take decision with systematic course of actions and/or response			
	Plan and Organize			
	The user/individual on the job needs to know and understand:			
	SB3. Planning and organization of tasks to meet deadlines			
	Customer Centricity			
	The user/individual on the job needs to know and understand how to:			
	SB4. Build customer relationships and use customer centric approach			
	Problem Solving			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB5. Seek and comprehend operation related inputs for clarification			
	SB6. Find ways of modifying difficult operating stages to make it operation			
	friendly			
	Analytical Thinking			
	The user/individual on the job needs to bow and understand how to:			
	SB7. Works systematically and logically to resolve the issues and identify			
	causation and anticipate unexpected results			
	SB8. Quick approach and solution towards faults repairing			
	Critical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB9. Critically evaluate operation parameters in relation to product features intended			
	SB10. Develop holistic and comprehensive profile of products based on segregated discrete process stages of blank forming processes			



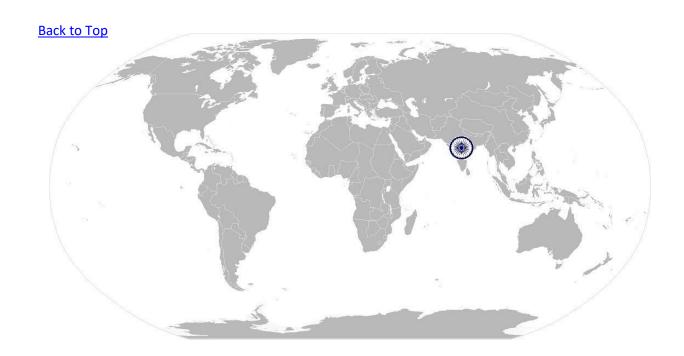




Maintenance & Repair of house hold electrical gadgets

NOS Code	PSS/N6003		
Credits (NSQF)	TBD	Version number	1.0
Industry	Power	Drafted on	04/11/2015
Industry Sub-sector	Distribution Downstream	Last reviewed on	25/07/2017
Occupation	Electrician	Next review date	25/07/2021

NOS Version Control



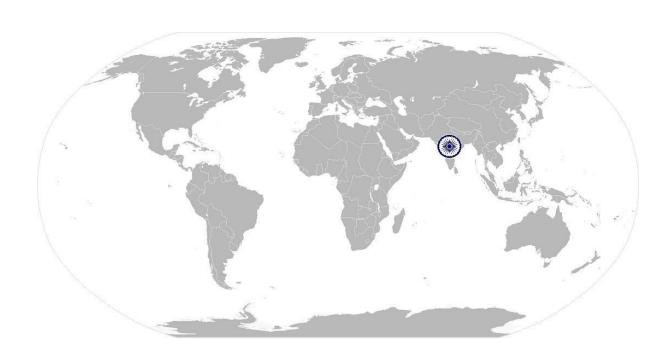






Develop Coustomer relationship skills

National Occupational Standard



Overview

This unit is about good customer relationship experience and skills to make a bond with consumer through effective communication and exchange information.







Develop Coustomer relationship skills

Unit Code	PSS/N6005			
Unit Title (Task)	Develop customer relationship skills			
Description	Make a bond with customer through effective communication and exchange information. Providing all updates to customers regarding the new services, policies, initiatives of the DISCOM/Utility			
Scope	 This unit/task covers the following Establish rapport with customer Gather information to assess Consumer's needs and seek his/her consent to your proposal Explain new services, options and rates to customers. Respond to customer's comments and questions Resolve consumer's problems to his/her full satisfaction 			
Performance Criteria(PC) w	v.r.t. the Scope			
Element	Performance Criteria			
Establish rapport with	The user/individual on the job needs to:			
customer.	PC1. Ensure effective verbal communications appolite, clear and completed in			
	a timely manner.			
	PC2. Ensure prompt greeting or acKnowledgement and offer of assistance are			
	provided to customer.			
	PC3. Ensure consumer is asked if there is anything else they can be helped with.			
	PC4. Ensure tone of voice and pace are monitored to ensure that trust is built.			
Gather information to	The user/individual on the job needs to:			
assess Consumer's needs	PC5. Ensure effective and efficient line of questioning is used.			
and seek his/her consent to your proposal	PC6. Ensure consumer needs are correctly identified in a timely manner.			
to your proposal	PC7. Ensure techniques used are personalized to meet the needs of customers			
	with different cultural backgrounds and demographics, including age and			
	disability status.			
	PC8. Submit a crisp proposal answering needs of the consumer with financial			
	esatimate component, explain full details and seek his/her consent to			
- 11	begin the job			
Explain new products,	The user/individual on the job needs to:			
options to customers	PC9. Understand new initiative taken up by company in reference to energy			
	conservation products by providing LED lamps, 5 star rating electric			
	gadgets.			
	PC10. Ensure power generating equipments like genset, solar panel etc. and			
	other non conventional energy source.			







Develop Coustomer relationship skills

Respond to Consumer's	The user/individual on the job needs to:			
comments and questions	PC11. Ensure appropriate explanation/solutions/options are determined for the			
·	consumer's situation.			
	PC12. Ensure customer communications are paraphrased to confirm			
	understanding.			
	PC13. Ensure consumer needs are recognized and acKnowledged.			
	PC14. Ensure issues are escalated or advice is solicited from appropriate			
	departmental staff when necessary to meet consumer needs.			
Resolve consumer's	The user/individual on the job needs to:			
problems to his/her full	PC15. Show patience: if you deal with consumers on a daily basis, be sure to stay			
satisfaction	patient when you meetthem and they are stumped and frustrated.			
	PC16. Show attentiveness: the ability to really listen to consumer is so crucial for			
	providing great service for a number of reasons.			
	PC17. Show clear communication skills: when it comes to important points that			
	you need to relay clearly to consumer, keep it simple and leave nothing to			
	doubt.			
	PC18. Show time management skills: don't waste time trying to go above and			
	beyond for a consumer in an service area where you will just end up			
	wasting both of your time.			
	PC19. Show ability to "read" consumer: look and listen for subtle clues about			
	their current mood, patience level, personality, etc., and you'll go far in			
	keeping your customer interactions positive.			
	PC20. Maintain a calming presence.			
	PC21. Show ability to use "positive language".			
	PC22. Show closing ability: being able to close with a consumer means being able			
	to end the services with confirmed satisfaction (or as close to it as you can			
	achieve) and with the consumer feeling that everything has been worked			
	on.			
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. Job responsibilities/duties and standard operating procedures, if any.			
	KA2. Processes like key contact points/customer servicedetails for query			
	resolution related to electrical product or wiring.			
	KA3. Escalation matrix and procedures for reporting employment related issues			







Develop Coustomer relationship skills

B. Technical	The individual on the job needs to know and understand:	
Knowledge	KB1. Power outage	
Miowicage	KB2. Basic electricity voltage, current, resistance, power, series and parallel	
	circuits	
	KB3. Products, their ratings as per name plate signs and technical terminology	
	KB4. Types of product available with different companies	
Skills (S)		
A. Core Skills/ Generic	Writing Skills	
Skills	The user/ individual on the job needs to know and understand how to:	
	SA1. Note the query, issues, specifications and fault observation if required.	
	SA2. Note down observations (if any) communicated by consumer and related	
	electricity rules,	
	SA3. IE Act and operation.	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA4. Read and and interpret the handling process required for various types of	
	consumer complaints.	
	SA5. Read and interpret the process required for all consumer related issues.	
	SA6. Read OEM specification on products Oral Communication (Listoning and Specking skills)	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA7. Discuss task lists, schedules and activities with team member, if any SA8. Effectively communicate with the team members.	
	SA9. Attentively listen and comprehend the information given by the	
	customer.	
	SA10. Communicate clearly with the customer on the issues faced during	
	query/fault.	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	SB1. Apply logical decision making process.	
	SB2. Take decision with systematic course of actions and/or response.	
	Plan and Organize	
	The user/individual on the job needs to know and understand:	
	SB3. Planning and organization of tasks to meet deadlines.	
	Customer Centricity	
	The user/individual on the job needs to know and understand how to:	
	SB4. Build consumer relationships and use consumer centric approach.	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	SB1. Seek and comprehend operation related inputs for clarification.	
	SB2. Find ways of modifying difficult operating stages to make it operation	







Develop Coustomer relationship skills

friendly.
Analytical Thinking
The user/individual on the job needs to know and understand how to: SB3. Apply domain information to set and define operation parameters that ensures economy and quality to supply
Critical Thinking
The user/individual on the job needs to know and understand how to: SB4. NA
SB5. NA

NOS Code		PSS/N6002	
Credits (NSQF)	TBD	Version number	1,0
Industry	Power	Drafted on	04/11/2015
Industry Sub-sector	Distribution Downstream	Last reviewed on	
Occupation	Electrician	Next review date	

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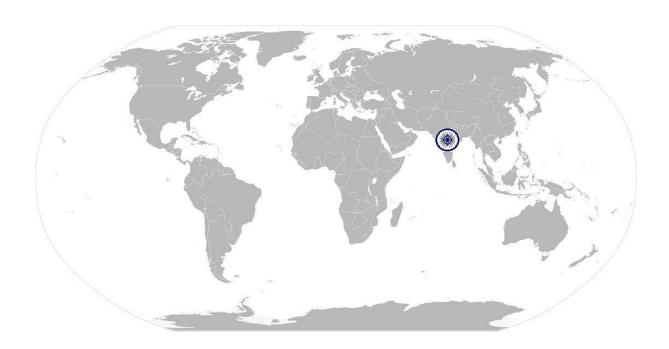






Use basic health and safety practices for power related work

National Occupational Standard



Overview

This unit covers health, safety and security for power related work. This includes procedures and practices that candidates need to follow to help maintain a healthy, safe and secure work environment while working on electrical appliances and power equipment.



NOS National Occupational Standards

PSS/N2001



PSS/N2001

Unit Code

Unit Title			
(Task)	Use basic health and safety practices for power related work		
Description	This unit covers health, safety and security for power related work. This includes procedures and practices that candidates need to follow to help maintain a healthy, safe and secure work environment while working on electrical appliance and power equipment. It covers responsibilities towards self, others, assets and the environment.		
·	It includes understanding of risks and hazards in the workplace, along with common techniques to minimize risk, deal with accidents, emergencies, etc.		
	It covers Knowledge of fire safety, common first aid applications, safe practices and emergency procedures.		
Scope	 This unit/task covers the following: Health and safety Fire safety Emergencies, rescue and first-aid procedures 		
Performance Criteria(PC)	1		
Element	Performance Criteria		
Health and safety	PC1. Use protective clothing/equipment for specific tasks and work conditions Protective clothing: leather or asbestos gloves, flame proof aprons, flame proof overalls buttoned to neck, cuffless (without folds), trousers, reinforced footwear, helmets/hard hats, cap and shoulder covers, ear defenders/plugs, safety boots, knee pads, particle masks, glasses/goggles/visors Equipment: hand and face shields, machine guards, residual current devices, shields, dust sheets, respirator PC2. State the names and location of documents that refer to health and safety in the workplace PC3. Identify job-site hazardous work and state possible causes of risk or accident in the workplace Hazards: electrical hazards (dealing with high voltage equipment, power supply and points, loose and naked cables and wires, electrical machines and appliances, etc.); sharp edged and heavy tools; heated metals; oxyfuel and gas cylinders; welding radiation; hazardous surfaces(sharp, slippery, uneven, chipped, broken, etc.); hazardous substances(chemicals, gas, oxy-fuel, fumes, dust, hazardous waste materials, etc.); physical hazards(working at heights, working in windy or moist areas, large and heavy objects and machines, sharp and piercing objects, moving objects and part of machinery, tolls and machines, intense light, load noise, abnormal temperature; obstructions in corridors, by doors, blind turns, over stacked shelves and packages, etc.); working in high temperatures		







	Possible causes of risk and accident: physical actions; not following instructions; inattention; sickness and incapacity (such as drunkenness); health hazards (such as untreated injuries and contagious illness); not taking safety precautions PC4. Carry out safe working practices while dealing with hazards to ensure the safety of self and others Safe working practices: using protective clothing and equipment; putting up and reading safety signs; handle tools in the correct manner and store and maintain them properly; keep work area clear of clutter, spillage and unsafe object lying casually; while working with electricity take all electrical precautions like insulated clothing, adequate equipment insulation, use of control equipment, dry work area,
	switch off the power supply when not required, etc.; safe lifting and carrying practices; use equipment that is working properly and is well
	maintained; take due measures for safety while working at heights, etc
Causes of Electrical Fires	PC5. Understand different cause of electrical fire Short circuits Overload circuits Faulty electrical equipment Faulty electrical outlets Faulty circuit breakers Old, outdated or wrong verstalled appliances Outdated or loose wiring Misused extention cords PC6. Capable to differentiate between different warning signs before electrical fire, such as Sparks or smoke coming out from a socket Burning smell Black marks or scorch marks Cracked, frayed or bare cables Melted plastic on cables or casings
Fire safety	Theuser/individualonthejobneedsto:
	PC7. Use the various appropriate fire extinguishers on different types of fires
	PC8. Distinguish types of fires: Class A: e.g. ordinary solid combustibles, such as wood, paper, cloth, plastic, charcoal, etc.; Class B: flammable liquids; Class C: e.g. combustible gases, such as gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class D: combustible chemicals and metals such as magnesium, titanium, and sodium (These fires burn at extremely high temperatures and require special suppression agents) These categories of fires become Class A, B, C and D fires when the electrical equipment that initiated the fire is no longer receiving electricity; Class E: e.g. electrical equipment such as appliances, wiring, breaker panels, etc.







PC9. Demonstrate rescue techniques applied during fire hazard			
PC10. Demonstrate good housekeeping in order to prevent fire hazards	Demonstrate good housekeeping in order to prevent fire hazards		
PC11. Demonstrate the correct use of a fire extinguisher.			
	The user/individual on the job needs to:		
and first-aid PC12. Demonstrate how to free a person from electrocution			
procedures PC13. Demonstrate how to check a person's response			
PC14. Administer appropriate first aid to victims whenever required e.g	g. in case		
of bleeding, choking, electric shock, poisoning etc.			
PC15. Demonstrate first-aid procedures if the person has suffered from	burns		
PC16. Demonstrate basic techniques of bandaging			
PC17. Respond promptly and appropriately to an accident situation or i	medical		
emergency in real or simulated environments			
PC18. Demonstrate the artificial respiration and the CPR Process			
PC19. Demonstrate correct method to move injured people and others	during		
an emergency			
Knowledge and Understanding (K)			
A. Organizational The user/individual on the jobneeds to know and understand:			
Context KA1. Job responsibilities/duties and standard operating procedures, if	any.		
KA2. Escalation matrix and procedure reporting employment rela	ted issues		
B. Technical The individual on the job needs to know and understand:			
VD4 PAssering of (the const-the state)			
Knowledge KB1. Weaning of nazards and risks KB2. Health and safety hazards commonly present in the work environments of the safety hazards and risks.	ent and		
related precautions			
KB3. Possible causes of risk, hazard or accident in the workplace and why	risk		
and/or accidents are possible			
KB4. Possible causes of risk and accident			
(possible causes of risk and accident: physical actions; not following			
instructions; inattention; sickness and incapacity (such as drunkenne	ess);		
health hazards (such as untreated injuries and contagious illness); no	ot taking		
safety precautions)			
KB5. Methods of accident prevention			
(methods of accident prevention: training in health and safety proce	edures;		
using health and safety procedures; use of equipment and working p	oractices		
(such as safe carrying procedures); safety notices, advice; instruction	n from		
colleagues and supervisors)			
KB6. Safe working practices when working with tools and machines			
KB7. Safe working practices while working at various hazardous sites			
KB8. Various dangers associated with the use of electrical equipment			
KB9. Positive isolation of electrical equipment and system			
KB10. Various safety procedures and equipment used to work at heights,	trenches		
and confined places			







	MD44 Increase of color contests and the death of the second color to the second color		
	KB11. Importance of using protective clothing/equipment and other insulated work gear while handling electrical system and equipment		
	KB12. Precautionary activities taken to prevent fire accident		
	KB13. Various causes of fire		
	(causes of fires: heating of metal; spontaneous ignition; sparking; electrical		
	heating; loose fires (smoking, welding, etc.); chemical fires; etc.)		
	KB14. Techniques of using the different fire extinguishers		
	KB15. Different methods of extinguishing fire		
	KB15. Different methods of extinguishing fire KB16. Different materials used for extinguishing fire		
	(materials: sand, water, foam, CO2, dry powder)		
	KB17. Emergency rescue techniques applied during a fire hazard		
	KB18. Appropriate basic first aid treatment relevant to the condition e.g. shock,		
	electrical shock, bleeding, breaks to bones, minor burns, resuscitation,		
	poisoning, eye injuries		
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Skills (S)			
A. Core Skills/	Writing Skills		
Generic Skills	The user/individual on the job needs to know and understand how to:		
	SA1. Note the information communicated by the customer.		
	SA2. Note down observations (if any) related to the operation/maintenance.		
	Reading Skills		
	 The user/individual on the job needs to know and understand how to: SA3. Read and interpret the process required for different types of manuals for maintenance. SA4. Read and interpret the flowchart of all parts of an assembly. SA5. Read manuals and documents to understand the product-details & how they can be used. 		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA6. Discuss task lists, schedules and activities with the customer/supervisor.		
	SA7. Effectively communicate with the team members.		
	SA8. Attentively listen and comprehend the information given by the		
	customer/supervisor/contractor.		
	SA9. Communicate clearly with the customer on the issues faced during		
	query/fault.		
B. Professional	Decision Making		
Skills	The user/individual on the job needs to know and understand how to:		
	SB1. Follow customer/contractor rule-based decision making process.		
	SB2. Take decision with systematic course of actions and/or response.		
	Plan and Organize		
	The user/individual on the job needs to know and understand:		
	SB3. Planning and organization of tasks to meet deadlines.		
	Customer Centricity		







Use basic health and safety practices for power related work

The user/individual on the job needs to know and understand how to:	
SB4. Build customer relationships and use customer centric approach.	
Problem Solving	
The user/individual on the job needs to know and understand how to:	
SB5. Seek and comprehend operation related inputs for clarification.	
SB6. Find ways of modifying difficult operating stages to make it operation	
friendly	
Analytical Thinking	
The user/individual on the job needs to know and understand how to:	
SB7. Works systematically and logically to resolve the issues and identify	
causation and anticipate unexpected results.	
SB8. Quick approach and solution towards faults repairing.	
Critical Thinking	
The user/individual on the job needs to know and understand how to:	
SB9. Critically evaluate operation parameters in relation to product features	
intended	
SB10. Develop holistic and comprehensive profile of products based on	

segregated discrete process stages blank forming processes

NOS Code		PSS/N2001	
Credits (NSQF)	TBD	Version number	1.0
Industry	Power	Drafted on	04/11/2015
Industry Sub-sector	Distribution Downstream	Last reviewed on	25/07/2017
Occupation	Electrician	Next review date	25/07/2021

NOS Version Control

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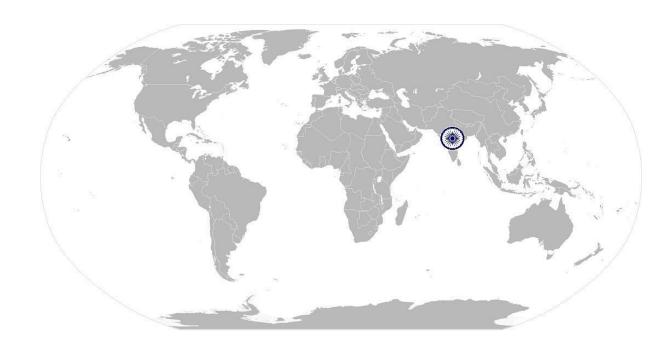






Work effectively with others (Applicable when working with an organization/in a team)

National Occupational Standard



Overview

This unit covers basic practices that improve effectiveness of working with others in an organizational set-up







Work effectively with others (Applicable when working with an organization/in a team)

Unit Code	PSS / N 1336		
Unit Title (Task)	Work effectively with others		
Description	This unit covers basic etiquette and competencies that a candidate is required to possess and demonstrate in their behavior and interactions with others at the workplace. These cover areas such as communication etiquette, discipline, listening, handling conflict and grievances.		
Scope	This unit/task covers the following: • Working with others		
Performance Criteria(F	PC) w.r.t. the Scope		
Element	Performance Criteria		
Knowledge and Under	PC1. Accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required PC2. Accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt PC3. Give information to others clearly pace and in a manner that helps them to understand PC4. Display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible PC5. Consult with and assist others to maximize effectiveness and efficiency in carrying out tasks PC6. Display appropriate communication etiquette while working Communication etiquette: do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa) etc. PC7. Display active listening skills while interacting with others at work PC8. Use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism PC9. Demonstrate responsible and disciplined behaviors at the workplace Disciplined behaviors:e.g. punctuality; completing tasks as per given time and standards; not gossiping and idling time; eliminating waste, honesty, etc. PC10. Escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		







Work effectively with others (Applicable when working with an organization/in a team)

Knowledge k	ne user/individual on the job needs to know and understand: KB1. Various categories of people that one is required to communicate and coordinate with in the organization KB2. Importance of effective communication in the workplace KB3. Importance of teamwork in organizational and individual success KB4. Various components of effective communication KB5. Key elements of active listening KB6. Value and importance of active listening and assertive communication KB7. Barriers to effective communication
k k k k	ordinate with in the organization KB2. Importance of effective communication in the workplace KB3. Importance of teamwork in organizational and individual success KB4. Various components of effective communication KB5. Key elements of active listening KB6. Value and importance of active listening and assertive communication
k k k k	KB2. Importance of effective communication in the workplace KB3. Importance of teamwork in organizational and individual success KB4. Various components of effective communication KB5. Key elements of active listening KB6. Value and importance of active listening and assertive communication
k k k k	KB3. Importance of teamwork in organizational and individual success KB4. Various components of effective communication KB5. Key elements of active listening KB6. Value and importance of active listening and assertive communication
	KB4. Various components of effective communication KB5. Key elements of active listening KB6. Value and importance of active listening and assertive communication
k k k	KB5. Key elements of active listening KB6. Value and importance of active listening and assertive communication
k k	KB6. Value and importance of active listening and assertive communication
k	·
k	NB7. Barriers to effective communication
	KB8. Importance of tone and pitch in effective communication
•	KB9. Importance of avoiding casual expletives and unpleasant terms while
	Communicating professional circles
k	KB10. How poor communication practices can disturb people, environment and cause problems for the employee, the employer and the customer
k	KB11. Importance of ethics for professional success
k	KB12. Importance of discipline for professional success
k	KB13. What constitutes disciplined behavior for a working professional
	KB14. Common reasons for interpersonal conflict
k	KB15. Importance of developing effective working relationships for professional success
k	KB16. Expressing and addressing grievances appropriately and effectively
k	KB17. Importance and ways of managing interpersonal conflict effectively





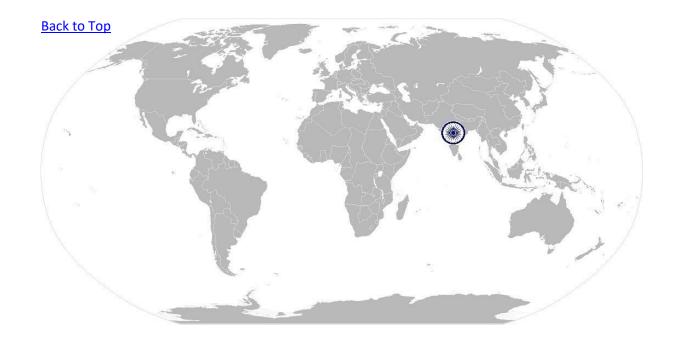


PSS/N 1336

Work effectively with others (Applicable when working with an organization/in a team)

NOS Code	PSS/N1336			
Credits (NSQF)	TBD	Version number	1.0	
Industry	Power	Drafted on	04/11/2015	
Industry Sub-sector	Downstream Activities	Last reviewed on	25/07/2017	
Occupation	Electrician	Next review date	25/07/2021	

NOS Version Control



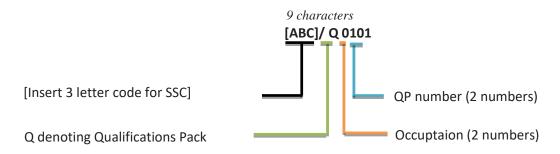




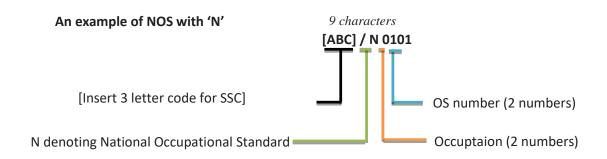
Annexure

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
Generation	1-10
Transmission	70-80
Distribution	20-30
Distribution Downstream	60-70

Sequence	Description	Example
Three letters	Industry name	[ABC, Font: Calibri (Body), size 11]
Slash	/	/
Next letter	Whether Q P or N OS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01





CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Electrician Domestic Solution

Qualification Pack PSS/Q6001

Sector Skill Council Power

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. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
- 4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
- 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
- 6. To pass the Qualification Pack, every trainee should score a minimum of 50% of aggregate marks to successfully clear the assessment.
- 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Compulsory NOS otal Marks: 600				Marks Allocation	
Assessment outcomes 1. PSS/ N 6001 Types of House wiring and fault repair in house wiring	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practica
	PC1. Develop circuit and wiring diagram and electrical signages, code specifications to plan wiring layouts, consumption points accurately, as may be required		3	2	1
	PC2. Understand and use of various types of tools, their functions and application for carrying out work		6	4	2
	PC3. Understand rating and current carrying capacity of wires, cables, fuse, switches, sockets, MCBs, ELCBs and other electrical accessories	100	5	2	3
	PC4. Lay conduit pipe concealed and open wiring, batten, casing-capping and temporary cleat wiring		4	1	3





Total Marks: 600	Compulsory NOS Total Marks: 600			Marks Allocation	
Assessment outcomes	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC5. Implement system in most	1			
	economical way		5	2	3
	PC6. Understand correct requirement of wires, cables, fuse, switches and other electrical accessories for optimal expenditure		6	3	3
	PC7. Ensure wiring and points selected in wiring is according to load growth in future		5	2	3
	PC8. Use under-voltage protective devices, choice of setting of protective devices, labelling of protective devices, switches and terminals		6	0	6
	PC9. Ensure insulation resistance of all live conductors to earth, insulation resistance between live conductors.	_	4	1	3
	PC10. Impliment methods of protection against electric shock	-	5	0	5
	PC11. selection of equipment appropriate to external influences, access to switchgear and equipment, presence of warning signs and danger notices		5	2	3
	PC12. Understand updated technology products also consider its ageing		4	1	3
	PC13. Inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in Wiring circuit	-	4	1	3
	PC14. Check open circuit due to overheated switches, socket and wires in control board due to loose contact and overload		4	1	3
	PC15. Check polarity to ensure all switches are connected in phase conductors	-	5	0	5





Compulsory NOS tal Marks: 600				Marks	Allocation
Assessment outcomes	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practica
	PC16. Check equal distribution of load on three phase wiring in large residential and commercial units		5	2	3
	PC17. Check the color coading, proper selection of conductors, wires and connectors and connections of single pole device		5	3	2
	PC18. Check routing of cables, checking proper selection of conductors, checking connection of single pole device		3	1	2
	PC19. Work safely at all times, complying with health and safety legislation, regulation and other relevant guidelines		3	0	3
	PC20. Adhere to procedures for safety to wear PPE's.		5	1	4
	PC21. Ensure that all tools & tackles, fittings, accessories etc. are in safe and usable condition		4	0	4
	PC22. Ensure work area is clean and safe from hazards before and after the job is completed		4	1	3
			100	30	70
2. PSS/ N 6002 Mains, distribution, controls, circuits	PC1. Understand standard location of main board ensure for utility's service line connection		6	3	3
and protection in house wiring	PC2. Understand layout of main switch, circuit breakers require at main board	100	5	2	3
	PC3. Ensure of controlling and protection devices for different circuits being used for lighting and power loads at each floor or portion		4	2	2





Total Marks: 600	Compulsory NOS Total Marks: 600				Marks	Allocation
Assessment outcomes	A	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC4.	Check types of conduit, batten,	1			
	PC4.	underground and open wiring		4	1	3
		anderground and open wiring			_	
	PC5.	Locate and mark the position of				
		conduit pipe Ensures, connections				
		into the structures with proper		4	1	3
		equipment's like measuring tape,		_	_	
		hammer, saw, drill machines etc.				
	PC6.	Cut openings in structures to				
	1 00.	accommodate conduit pipes or pipe				
		fittings, using hand or power tools		4	0	4
		The state of poster cools				
	PC7.	Read plan Ensure around				
		obstructions like electrical wiring, gas		4	2	2
		fittings etc.			_	_
	PC8.	Laying of conduit pipe with clamps		1	0	1
	PC9.	Install brackets and hangers to				
		support electrical equipment		1	0	1
	PC10.	Install, replace and repair lighting				
		fixtures and electrical control and				
		distribution equipment, such as		6	2	4
		switches, relays and circuit breaker				
		panels				
	PC11.	Lay & pull wire through conduits and				
		through holes in walls and floors		4	0	4
	PC12.	Join and connect wire to fixtures and				
		components to form circuits		6	2	4
	PC13	Prepair extended line for additional				
	1015.	points with bearing capacity of				
		existing system or				
		augment/replacement of existing		5	2	3
		lines to with hold the additional load				
	PC14.	Install the protective device i.e. fuse,				
		MCB, RCCB, MCCB's ratings as per		6	2	4
		the load				





Compulsory NOS Total Marks: 600				Marks A	Allocation
Assessment outcomes	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC15. Ensure proper working and			<u> </u>	
	functioning of all protective devices				
	thet are necessary to save lives of		3	1	2
	human, livestock, animals				
	PC16. Ensure fuse, switch or circuit breaker				
	should not be placed in an earthed				
	neutral conductor and are wired only		3	0	3
	in the phase conductor only				
	PC17. Ensure all the connections are made				
	properly, tightened and color coding		4	1	3
	PC18. Ensure that the correct type, size and				
	current-carrying capacity of cables is		3	1	2
	chosen to bear the load			_	
	PC19. Ensure that the all accessible points				
	which may be switched on/off must		3	2	1
	be easily approached by the users			_	_
	PC20. Understand types of earthing plate				
	and pipe earthing layout location		4	2	2
	PC21. Understand importance of earth				
	connection with household gadgets		3	2	1
	and equipments			_	
	PC22. Understand procedure of earth				
	connection with appliance, sockets		3	1	2
	main board and distribution board				
	PC23. Use of devices available in market				
	such as trimmers, impulse relay,				
	programmable switch, twilight		2	0	2
	switch, movement detector				
	PC24. Ensure of assembling of various type,				
	design and capacity fans, tube lights,				
	LED lights, bulbs, lamps, doorbells,			4	
	switches, geysers, inverters, exhaust		3	1	2
	fan, safety alarams, decorative lights				
	and chandliers				
		I		l	





otal Marks: 600	Compulsory NOS				Marks	Allocation
Assessment outcomes	A	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practica
	DC25	Ensure of various size and capacity				
	1 023.	water pump motors according to the				
		load with their control circuit of		3	1	2
		water level in tank			_	
	PC26.	Make connections and operate				
		instruments to check the healthiness				
		of house wiring in terms of leakage		2	0	2
		insulation resistance				
	PC27.	Operate instruments to check the				
		continunity, open circuit, short circuit		2	0	2
		and load flow			Ů	
	PC28.	Operate instruments to check the				
		earth resistance		2	0	2
_				100	31	69
3. PSS/ N 6003	PC1.	Read and interpret drawings, circuit				
Maintenance &		diagrams and electrical code		_	_	
Repair of house		specifications of the electrical		7	3	4
hold electrical gadgets		equipment, gadgets				
gaugets	PC2.	,				
		capacity in KW, load in Amperes and				
		power consumption in KWH for each appliance		4	3	1
	PC3.	Check connection of equipment,				
		checking for status of tripping device		4	2	2
	PC4.	Ensure presence of appropriate	100			
		devices for isolating and switching		3	2	1
	PC5.	Understand operating principle of				
		single phase motor, use of condenser		5	4	1
	PC6.	Understand how rotating field is				
		developed in single phase and three phase motor		2	2	0
	PC7.	Understand the significance of				
		number of poles significance in motor				
		winding for rpm, speed and direction		3	2	1
		change				





Total Marks: 600	Compulsory NOS			Marks	Allocation
Assessment outcomes	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC8. Maesure insulation resistance of motor winding with live conductors to earth and insulation resistance between live conductors		3	1	2
	PC9. Understand various parts of motors, pumps and their function like ball bearings, cooling fans, fins and bushes		3	2	1
	PC10. Understasnd various types of winding wires, their gauge and insulating materials for motor winding		2	2	0
	PC11. Understand materials used to make various types of heating elements like nicrome, kanthal, eureka etc., various shape, size and capacity of heating elements according to applications and usages		4	0	4
	PC12. Understand types of thermal insulations used in electrical gadgets like mica, asbestos, ceramics, glass wool etc.		4	0	4
	PC13. Understand timers (motorized, mechanical), thermal relays, bimetallic strips		5	2	3
	PC14. Ensure preventive maintenance, regular cleaning, oiling, greasing of house hold gadgets like fans, desert cooler, water pump motors etc.		4	0	4
	PC15. Replace damaged switches, MCB, fan- capacitor, regulator, lighting points i.e. holder, choke, starters, water coolers and their pump & motor		6	2	4





otal Marks: 600	Compulsory NOS			Marks	Allocation
Assessment outcomes	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practica
	PC16. Ensure regular maintenance of				
	electrical equipment's like- iron,				
	toaster, induction-plate & cooker		8	3	5
	PC17. Ensure regular maintenance of doorbells, FL tube starters & chokes		8	3	5
	PC18. Preventative maintenance of batteries		5	2	3
	PC19. Solder winding wires, cables and their joints in electrical gadgets		5	1	4
	PC20. Verify system grounding and measure insulation resistance		2	0	2
	PC21. Clean solar panels for removal of dust, bird droppings, pollen, leaves, branches etc. as per maintenance schedule		2	0	2
	PC22. Ensure all electrical connections as per specification, measure and record DC voltages and currents and identify the faults in the system		2	1	1
	PC23. Check for working condition of fuses, circuit breakers and all cables for loose connections		2	1	1
	PC24. Take adequate precautionary measures while handling electrical system adhering to relevant health and safety standards		2	0	2
	PC25. Understand that if reason of error is not clear, do not try ro fix anything and call OEM repair and maintenance team		5	2	3
			100	38	62





Total Marks: 600	Compulsory NOS otal Marks: 600				Marks A	Allocation
Assessment outcomes	A	ssessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
4. PSS/N6005 Develop coustomer	PC1.	Ensure effective verbal communications are polite, clear and completed in a timely manner		6	2	4
relationship skills	PC2.	Ensure promot greeting or acKnowledgement and offer of assistance are provided to coustomer		4	0	4
	PC3.	Ensure consumer is asked if there is anything else they can be helped with		4	0	4
	PC4.	Ensure tone of voice and place are monitored to ensure that trust is built		6	2	4
	PC5.	Ensure effective and efficient line of questioning is used		6	4	2
	PC6.	Ensure consumer needs are correctly identified in a timely manner	100	4	2	2
	PC7.	Ensure techniques used are personalized to meet the needs of coustomers with different cultural backgrounds and demographics, including age and disability status		4	2	2
	PC8.	Submit a crisp proposal answering needs of the consumer with financial esatimate component, explain full details and seek his/her consent to begin the job		3	0	3
	PC9.	Understand new initiative taken up by company in reference to energy conservation products by providing LED lamps, 5 star rating electric gadgets		4	1	3





Total Marks: 600	Compuls	ory NOS				Allocation
Assessment outcomes	As	ssessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC10.	Ensure power generation equipment like genset, solar panels etc. and other non conventional energy source		4	0	4
	PC11.	Ensure appropriate explanation/ solution/ option are determinded for the consumer's situation		4	0	4
	PC12.	Ensure customer communications are paraphaesd to confirm understanding		5	3	2
	PC13.	Ensure consumer needs are recognized and acKnowledged		4	0	4
	PC14.	Ensure issues are escalated or advice is solicited from appropriate departmental staff when necessary to meet consumer needs		3	2	1
	PC15.	Show patience: if you deal with consumeron a daily basis, be sure to stay patient when you meetthem and they are stumped and frustrated		5	1	4
	PC16.	Show attentiveness: the ability to really listen to consumer is so crucial for providing graet service for a number of reasons		5	2	3
	PC17.	Show clear communication skills: when it comes to important points that you need to relay cleary to consumers, keep it simple and leave nothing to doubt		5	2	3
	PC18.	Show time management skills: don't waste time trying to go above and beyond for a consumer in an service area where you will just end of wasting both of your time		5	2	3





Total Marks: 600	Compul	sory NOS			Marks Allocation	
Assessment outcomes	Į.	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practica
	PC20. PC21.	Show ability to "read" consumer: look and listen for subtle clues about their current mood, patience level, personality etc. and you'll go for in keeping your coustomer interaction positive Maintain a calming presence Show ability to use "positive language" Show closing ability: being able to close with a consumer means being able to end the service with		5 4	2 0	3 3 4
		confirmed satisfaction (or as close to it as you can achieve) and with the consumer feeling that everything has been worked on		5	1	4
				100	30	70
5. PSS/ N 2001 Use basic health and safety practices as the workplace	PC1.	Use protective clothing/equipment for specific tasks and work conditions Protective clothing: leather or asbestos gloves, flame proof aprons, flame proof overalls buttoned to neck, cuffless (without folds), trousers, reinforced footwear, helmets/hard hats, cap and shoulder covers, ear defenders/plugs, safety boots, knee pads, particle masks, glasses/goggles/visors Equipment: hand and face shields, machine guards, residual current devices, shields, dust sheets, respirator	100	8	3	5
	PC2.	State the names and location of documents that refer to health and safety in the workplace		5	1	4





Total Marks: 600	Compulsory NOS				Marks Allocation	
Assessment outcomes	Assessment crit	teria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	and state polacident in telectrical had high voltage supply and placables and with machines are sharp edged heated metal cylinders; with hazardous signs, oxy-fue hazardous with physical physical physical physical physical hazardous with physical physic	es. Possible causes of ident: physical actions; g instructions; sickness and incapacity inkenness); health ch as untreated injuries ous illness); not taking	IVIATKS	6	2	4





Total Marks: 600	Compulsory NOS			Marks A	location
Assessment outcomes	Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC4. Carry out safe working practice while dealing with hazards to ensure the safety of self and o Safe working practices: using protective clothing and equipmenting up and reading safety handle tools in the correct ma and store and maintain them properly; keep work area clear clutter, spillage and unsafe oblying casually; while working welectricity take all electrical precautions like insulated cloth adequate equipment insulation use of control equipment, dry area, switch off the power sup when not required, etc.; safe I and carrying practices; use equipment that is working propand is well maintained; take dimeasures for safety while wor at heights, etc.	thers ment; signs; nner r of ject vith hing, n, work oply ifting operly ue king	8	3	5
	PC5. Understand different cause of electrical fire • Short circuit • Overload circuits • Faulty electrical equipment • Faulty electrical outle • Faulty circuit breaker • Old, outdated or wrowinstalled appliences	ets s	5	2	3





Total Marks: 600	Compul	sory NOS			Marks Allocation	
Assessment outcomes	Α	ssessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practica
	PC6.	Capable to differentiate between different warning signs before electrical fire, such as • Sparks or smoke coming out from a socket • Burning smell				
		 Black marks or scorch marks Cracked, frayed or bare cables Melted plastic on cables or casing 		5	2	3
	PC7.	Use the various appropriate fire extinguishers on different types of fires correctly		6	3	3
	PC8.	Understand types of fires: Class A: e.g. ordinary solid combustibles, such as wood, paper, cloth, plastic, charcoal, etc.; Class B: flammable liquids; Class C: e.g. combustible gases, such as gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class D: combustible chemicals and metals such as magnesium, titanium, and sodium (These fires burn at extremely high temperatures and require special suppression agents) These categories of fires become Class A, B, C and D fires when the electrical equipment that initiated the fire is no longer receiving electricity; Class E: e.g. electrical equipment such as appliances, wiring, breaker panels, etc.		5	2	3
	PC9.	Demonstrate rescue techniques applied during fire hazard		5	2	3





Compulsory NOS tal Marks: 600					Marks	Allocation	
Assessment outcomes	As	ssessment criteria for outcomes	Total Marks	Out Of Theory		Skills Practical	
	PC10.	Demonstrate good housekeeping in			<u> </u>		
	PCIO.	order to prevent fire hazards		5	2	3	
		order to prevent me mazards					
	PC11.	Demonstrate the correct use of a					
		fire extinguisher.		5	2	3	
	PC12.	Demonstrate how to free a person					
		from electrocution		4	2	2	
	PC13.	Demonstrate how to check a					
		person's response		4	1	3	
	PC14.	Administer appropriate first aid to					
		victims wheneverrequired e.g. in					
		case of bleeding, choking, electric		5	0	5	
		shock, poisoning etc.					
	PC15.	Demonstrate first-aid procedures if					
		the person has suffered from burns		4	2	2	
	PC16.	Demonstrate basic techniques of					
		bandaging		6	2	4	
	PC17.	Respond promptly and					
		appropriately to an accident					
		situation or medical emergency in		5	2	3	
		real or simulated environments					
	PC18.	Demonstrate the artificial					
		respiration and the CPR Process		5	2	3	
	PC19.	Demonstrate correct method to					
		move injured people and others		4	2	2	
		during an emergency					
				100	37	63	
6. PSS/ N 1336 Work	PC1.	Accurately receive information and					
effectively with		instructions from the supervisor					
others		and fellow workers, getting		10	3	7	
(Applicable when		clarification where required					
working with an organization/in a	PC2.	Accurately pass on information to	100				
team)		authorized persons who require it					
,		and within agreed timescale and		10	3	7	
		confirm its receipt		10	,		





Compulsory NOS Total Marks: 600				Marks /	Allocation	
Assessment outcomes	As	sessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC3.	Give information to others clearly, at a pace and in a manner that helps them to understand		10	3	7
	PC4.	Display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible		10	3	7
	PC5.	Consult with and assist others to maximize effectiveness and efficiency in carrying out tasks		10	3	7
	PC6.	Display appropriate communication etiquette while working. Communication etiquette: do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa) etc.		10	3	7
	PC7.	Display active listening skills while interacting with others at work		10	3	7
	PC8.	Use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism		10	3	7
	PC9.	Demonstrate responsible and disciplined behaviors at the workplace. Disciplined behaviors: e.g. punctuality; completing tasks as per given time and standards; not gossiping and idling time; eliminating waste, honesty, etc.		10	3	7
	PC10.	Escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		10	3	7
				100	30	70