

## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR POWER SECTOR



### Contents

1. Introduction and Contacts.....	1
2. Qualifications Pack.....	2
3. OS Units.....	2
4. Glossary of Key Terms .....	3
5. Annexure: Nomenclature for QP & OS.....	27

### What are Occupational Standards(OS)?

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

#### Contact Us:

Power Sector Skill Council  
2<sup>nd</sup> Floor, CBIP Building,  
Malcha Marg,  
Chanakyapuri, New Delhi -

E-mail: [pssc@cbip.org](mailto:pssc@cbip.org)



## Introduction

### Qualifications Pack-Consumer Energy Meter Technician

**SECTOR:** POWER

**SUB-SECTOR:**Distribution

**OCCUPATION:** Lineman

**REFERENCE ID:** PSS/ Q 0107

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

**Consumer Energy Meter Technician** installs, removes or changes electric single and three phase consumer energy meters used in residential, commercial and industrial units to record energy consumption at LV voltage.

**Brief Job Description:** An individual assigned with the role of an consumer energy meter technician performs basic installation, read and understand single phase and three phase meter in line with energy providers' standards and policies. This position requires minimum work supervision as the job duties are mostly performed at the work site. The job responsibilities may also include attending to customers' breakdown complaints and requests, repairing and servicing of faulty equipment, checking wiring system, etc.

**Personal Attributes:** Physically and mentally able to safely perform essential functions of the job. This will also include differently abled people who can perform the job with or without reasonable accommodations (modified practices.) The candidate should be able to climb ladders, scaffolds and poles of various heights. The candidate should be able to read, hear and understand instructions and warnings.

Job Details

<b>Qualifications Pack Code</b>	<b>PSS/ Q 0107</b>		
<b>Job Role</b>	<b>Consumer Energy Meter Technician</b>		
<b>Credits(NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Sector</b>	<b>Power</b>	<b>Drafted on</b>	<b>26/03/2015</b>
<b>Sub-sector</b>	<b>Distribution</b>	<b>Last reviewed on</b>	<b>26/03/2015</b>
<b>Occupation</b>	<b>Lineman</b>	<b>Next review date</b>	<b>26/03/2017</b>

<b>Job Role</b>	<b>Consumer Energy Meter Technician</b>
<b>Role Description</b>	Installs, removes and changes Low voltage, single phase or three phase consumer energy meter, and supportive equipment at work site in accordance with energy providers' guidelines.
<b>NSQF level</b>	3
<b>Minimum Educational Qualifications</b>	8 <sup>th</sup>
<b>Maximum Educational Qualifications</b>	NA
<b>Training</b> (Suggested but not mandatory)	Electrical - 6 months
<b>Experience</b>	1 year as technical helper/apprenticeship
<b>Applicable National Occupational Standards (NOS)</b>	<p><b>Compulsory:</b></p> <ol style="list-style-type: none"> <li><a href="#">PSS N 0114 (Manually remove, change and install Low voltage, single and three phase meters)</a></li> <li><a href="#">PSS/ N 2001 (Use basic health and safety practices at the workplace)</a></li> <li><a href="#">CSC/ N 1336 (Work effectively with others)</a></li> </ol> <p><b>Optional:</b> N.A.</p>
<b>Performance Criteria</b>	As described in the relevant OS units

Keywords /Terms	Description
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the NOS, these include communication related skills that are applicable to most job roles.
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 NOS.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Organisational Context	Organisational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
Qualifications Pack(QP)	Qualifications Pack comprises the set of NOS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Scope	Scope is the 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 the quality of performance required.
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.
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Unit Code	Unit Code is a unique identifier for a NOS unit, which can be denoted with an 'N'
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do
Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.

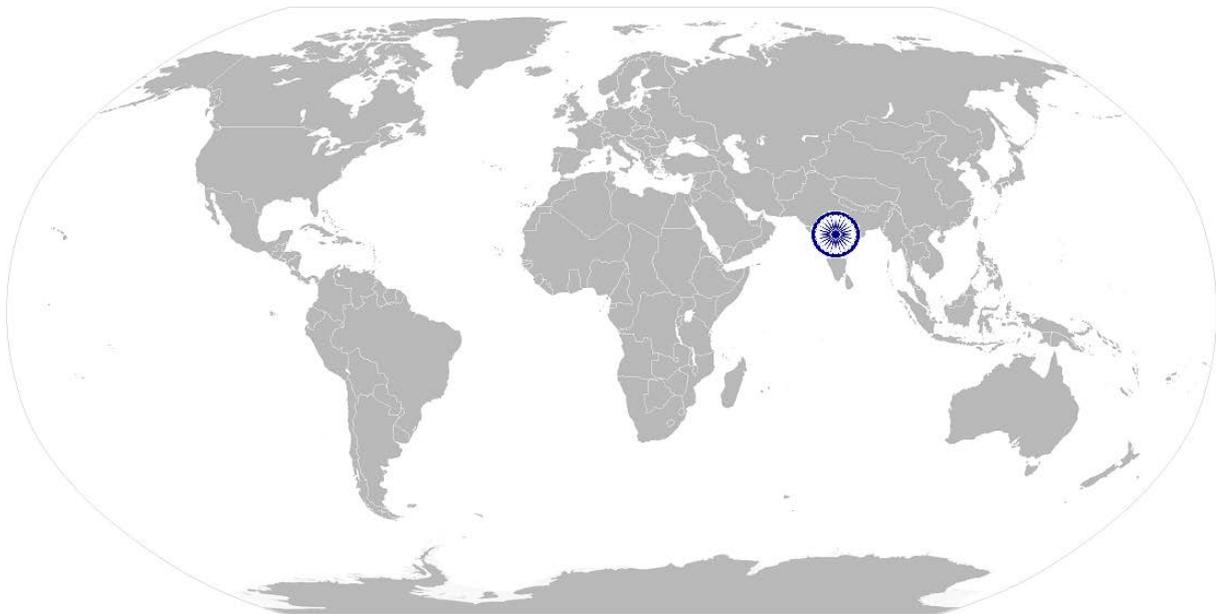
Acronyms	Keywords /Terms	Description
	T&D	Transmission and Distribution
	REC	Rural Electrification Corporation
	AB Cables	Aerial Bunched Cables
	HT	Hight Tension
	LT	Low Tension
	HV	High Voltage
	LV	Low Voltage
	BDV	Breakdown Voltage
	ULF	Ultra Low Frequency
	VLF	Very Low Frequency
	OPGW	Optical Groundwire
	KV	Kilovolt
	KWH	Kilo Watt Hour
	KVA	Kilo Volt Ampere
PF	Power Factor	
BIS	Bureau of Indian Standards	



**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

---

# National Occupational Standard



## Overview

This unit provides the performance criteria, knowledge and skills required for installing, removing or changing, testing and maintaining Low Voltage(LV) consumer energy meters (single phase or three phase) and meter supportive equipment that are used to record energy consumption in residential, commercial or industrial units.

**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

National Occupational Standard

<b>Unit Code</b>	<b>PSS/ N 0114</b>
<b>Unit Title (Task)</b>	<b>Manually remove, change and install Low Voltage, single and three phase meters</b>
<b>Description</b>	<p>An electric meter technician is responsible for installing, removing or changing, testing and maintaining Low Voltage(LV) consumer energy meters (single phase or three phase) and meter supportive equipment that are used to record energy consumption in residential, commercial or industrial units. The incumbent records, maintains and verifies metered data correctly upon successful completion of the process in line with relevant regulations and organizational standards.</p> <p>The candidate is expected to work on his/her own responsibility at the work site and record the proceedings of the work upon completion of the work in line with organizational standards and policies. He/she must follow safety guidelines and regulations relevant to the power sector while carrying out the work.</p>
<b>Scope</b>	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>• Working Safely</li> <li>• Preparing work area for installation</li> <li>• Installing a single or three phase meter appropriately</li> <li>• Removing and replacing a single or a three phase meter</li> <li>• Meter recording procedures post installation</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Working Safely</b>	<p>The user/individual on the job should be able to:</p> <p>PC1. obtain job specification or work order from responsible authority</p> <p>PC2. select and use appropriate personal protective equipment (PPE) suitable to the work as per occupational health and safety guidelines  <b>Personal protective equipment:</b> hard working caps, protective glasses, rubber gloves, fall arrest and restraint, safety footwear, fire-resistant clothing, etc.</p> <p>PC3. select and use appropriate tools and equipment in accordance with the tasks  <b>Tools and equipment:</b> e.g. insulated hand tools; drills; hacksaw; hand tools; testing equipment; insulation testers; crimping tools; wires and cables of various colours and sizes; heat shrink sleeving and flexible conduit; terminals and connectors; electrical tape; etc.</p> <p>PC4. confirm that the selected tools and equipment are safe and ready for use</p>
<b>Preparing work area for installation</b>	<p>The user/individual on the job should be able to:</p> <p>PC5. verify the distance between the poles or cables is correct</p> <p>PC6. check the underground and/or overhead cables are laid correctly as per work order</p> <p>PC7. plan and locate the area inside or outside the customer's premise after assessing possible risks</p> <p>PC8. check that the identified area is accessible to carry out installation, meter testing, commissioning, reading, recording and maintenance</p> <p>PC9. ensure the energy meter is correct, examined and tested, and meets all the</p>

**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

	<p>parameters and specifications set by the Bureau of Indian Standards (BIS)</p> <p><b>Consumer meters:</b> Low Voltage(LV) meters; single phase meter (two wires system) and three phase meter (four wires system)</p> <p><b>Parameters:</b> specification of meters, immunity to external factors, sealing points and functional requirements, etc.</p> <p><b>Meter specification:</b> Standard Reference Voltage, Voltage Range, Standard Frequency, Standard Basic Current, Accuracy Class, Starting Current and Maximum Current, Power Factor Range, Power Frequency Withstand Voltage, Impulse Voltage Withstand Test for 1.2/50 micro sec, Power Consumption check tampering, breaking or removing</p> <p>PC10. follow safe working practices in accordance with instructions given in the organizational standards and regulations to prevent injury to self and others while carrying out work</p> <p>PC11. inspect the facility's wiring system and recognize any possible risks to be isolated such as faulty circuit, loose ends, naked wires, etc.</p> <p>PC12. check the consumer's wiring system for any common phase or looping of phase of two or more consumers</p> <p>PC13. inform all affected parties of the intended work plan in advance prior to disconnecting power supply line</p>
<p><b>Installing a single or three phase meter</b></p>	<p>PC14. install the energy meter and required supportive equipment using appropriate insulated tools and devices as per organizational procedures</p> <p><b>Supportive equipment:</b> e.g. meter box, junction box, distribution bus bar, etc.</p> <p>PC15. equip the energy meter with various anti-tampering features as per regulations and organizational procedures</p> <p>PC16. establish immunity against various types of external factors in accordance with relevant regulations</p> <p><b>External factors:</b> magnetic induction, vibration, electrostatic discharge, switching transients, surge voltages, oblique suspension and harmonics</p> <p>PC17. ensure the energy meter displays one of more of the following parameters depending upon the tariff requirement for different categories of consumers</p> <p><b>Measuring parameters:</b> cumulative reactive energy, average power factor, time of energy use, apparent power, maximum demand, phase voltage and line currents</p> <p>PC18. check that any replaced or repaired equipment are working properly and customer's problems are duly resolved efficiently</p> <p>PC19. check the energy meter for earth leakage indication as per relevant regulations</p> <p><b>Regulations:</b> Central Electricity Authority Regulations, 2006</p> <p>PC20. test and calibrate the energy meter using appropriate testing devices in line with organizational quality standards and regulations</p> <p>PC21. identify and escalate unresolved problems to appropriate authority for rectifications</p>
<p><b>Removing and replacing a single or a three phase meter</b></p>	<p>The user/individual on the job should be able to:</p> <p>PC22. establish the reason for changing the energy meter from responsible source in order to plan out the work</p> <p><b>Reasons:</b> discrepancies (stoppage of meter, erratic consumption output, broken seal, burning or damage of meter), service disconnection</p> <p>PC23. identify the meter type, required tools and devices and the recommended</p>

**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

	<p>removal procedures</p> <p>PC24. replace the same with a duly tested energy meter as per instructions given in organizational guidelines and regulations</p> <p>PC25. test to confirm that the replaced energy meter conforms to required work specifications</p>
<b>Meter recording procedures post installation</b>	<p>The user/individual on the job should be able to:</p> <p>PC26. record the metered data and maintain all the information related to the consumer's energy meter</p> <p>PC27. verify the accuracy of the metered data</p> <p>PC28. maintain consumer meters' account history, installation date and testing details, calibration and replacement of meters in line with organizational standards and policies</p> <p>PC29. check that tools and devices used are disassembled and stored safely as per instructions</p> <p>PC30. dispose waste materials such as wires, tapes, plastic caps, etc. in line with safety and environmental procedures</p> <p>PC31. leave the work area in safe conditions and clear of any hazardous substances</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. legislation, standards, policies, and procedures followed in the company relevant to own employment and performance conditions</p> <p>KA2. relevant health and safety requirements applicable in the work place</p> <p>KA3. importance of working in clean and safe environment</p> <p>KA4. own job role and responsibilities and sources for information pertaining to employment terms, entitlements, job role and responsibilities</p> <p>KA5. reporting structure, inter-dependent functions, lines and procedures in the work area</p> <p>KA6. relevant people and their responsibilities within the work area</p> <p>KA7. escalation matrix and procedures for reporting work and employment related issues</p> <p>KA8. documentation and related procedures applicable in the context of employment and work</p> <p>KA9. importance and purpose of documentation in context of employment and work</p>
<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. importance of using personal protective equipment (PPE) against possible electrical hazards as described in the organizational health and safety guidelines and relevant regulations <b>Electrical hazards:</b> open circuits, short circuits, damaged insulation, frayed wires, connector damage, terminal damage, diagnosis trouble codes (DTC) being set, etc.</p> <p>KB2. various actions to be taken and protocols to be followed in emergency situation and accidents</p> <p>KB3. installation, operation and maintenance procedures of energy meter as listed under the Central Electricity Regulations, 2006</p> <p>KB4. importance of following safe working practices and relevant environmental policies</p>



**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

	<p>KB5. various techniques used to manually lift or carry tools and electrical equipment</p> <p>KB6. how to obtain job specifications or work order from responsible authority</p> <p>KB7. how to plan the work correctly using various safety control measures  <b>Work planning:</b> location, materials required and sequence of tasks, etc.  <b>Control measures:</b> signs and barriers, demarcation of work area, control and removal of hazards and contamination protection</p> <p>KB8. list of required tools and equipment and their uses in the work</p> <p>KB9. various types of consumer energy meters and their uses  <b>Types of meters:</b> single phase meter, three phase meter, CT meter and HT meters</p> <p>KB10. different components of a consumer energy meter and their functions</p> <p>KB11. difference between LV and HT meters and their respective uses in the power sector</p> <p>KB12. compliance with energy meter standards set by apex regulators  <b>Regulators:</b> Bureau of Indian Standards (BIS), British Standards (BS), International Electro-technical Commission (IEC) Standards, etc.</p> <p>KB13. how to select suitable location for installing an energy meter</p> <p>KB14. application of basic principles of electricity in energy meters</p> <p>KB15. electrical units used to measure energy outputs, for example KVA, KWH, etc.</p> <p>KB16. importance of checking manufacturer’s sealing points prior to installation  <b>Sealing points:</b> meter body or cover, meter terminal cover, meter test terminal block, meter cabinet</p> <p>KB17. consumer’s cooperation and responsibility to safeguard energy meters against tampering and damages</p> <p>KB18. relevant terms, signs, symbols and other graphical representations and their respective interpretations</p> <p>KB19. how to record metered data, maintain information database and verify accuracy of compiled data</p> <p>KB20. energy meters testing procedures and devices used</p> <p>KB21. standard features of a correct energy meter as defined by regulating body e.g. specification of meters, immunity to external factors, sealing points and functional requirements</p> <p>KB22. required meter specifications as per Indian Standards</p> <p>KB23. how to place various anti-tampering features in an energy meter</p> <p>KB24. correct waste disposal methods against safety and environmental issues</p> <p>KB25. maintain correct body posture and sharp mind at work, and be physically fit</p> <p>KB26. recognize and report inaccurate work instructions and documentation to designated personnel</p> <p>KB27. maintain working relations with customers as per organizational standards and policies  <b>Customer service standards:</b> e.g. listen to customer, communicate effectively, resolve problems, inform and acknowledge, introduce self and company appropriately, etc.</p>
--	--

**Skills (S) [Optional]**

<b>A. Core Skills/</b>	<b>Communication Skills</b>
------------------------	-----------------------------

**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

<p><b>Generic Skills</b></p>	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. read and interpret information correctly from various job specification documents, manuals, health and safety instructions, memos, etc. applicable to the job in English and/or local language</p> <p>SA2. convey and share technical information clearly using appropriate language</p> <p>SA3. check and clarify task-related information</p> <p>SA4. liaise with appropriate authorities using correct protocol</p> <p>SA5. communicate with people in respectful form and manner in line with organizational protocol</p> <p>SA6. fill logs, forms and formats in local or English language for administrative purpose, quality related information, service related information, etc. whenever needed.</p> <p>SA7. fill up appropriate technical forms, process charts, activity logs as per organizational format in English and/or local language</p> <p>SA8. interpret pictorial or graphical representations and written signs or instructions on electrical units</p> <p>SA9. understand safety symbols on equipment and measurement units used</p> <p>SA10. read the job specification provided in English language</p>
	<p><b>Numerical and computational skills</b></p> <p>SA11. undertake numerical operations, and calculations/ formulae  <b>Numerical computations:</b> addition (with decimal digits and with carrying), subtraction (with decimal digits and with borrowing), multiplication (with decimal digits), division (with decimal digit), fractions and decimals, percentages and proportions, simple ratios and averages</p> <p>SA12. identify and draw various basic, compound and solid shapes as per dimensions given  <b>Basic shapes:</b> square, rectangle, triangle, circle  <b>Compound shapes:</b> involving squares, rectangles, triangles, circles, semi-circles, quadrants of a circle  <b>Solid shapes:</b> cube, rectangular prism, cylinder</p> <p>SA13. demonstrate measurement and calculation of Angle, Perimeter, Area of a common geometrical shape and can co-relate with job area requirements</p> <p>SA14. use appropriate measuring techniques and units of measurement</p> <p>SA15. use British and metric system of measurement and make conversions between them</p> <p>SA16. describe the difference between Celsius &amp; Fahrenheit Scale and relationship between them</p> <p>SA17. use appropriate units and number systems to express degree of accuracy  <b>Units and number systems representing degree of accuracy:</b> decimals places, significant figures, fractions as a decimal quantity</p> <p>SA18. interpret and express tolerance in terms of limits on dimensions</p> <p>SA19. calculation of the value of angles in a triangle using trigonometry  <b>Angles in a triangle:</b> right-angled, isosceles, equilateral</p>
	<p><b>Learning</b></p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA20. participate in on-the-job and other learning, training and development</p>

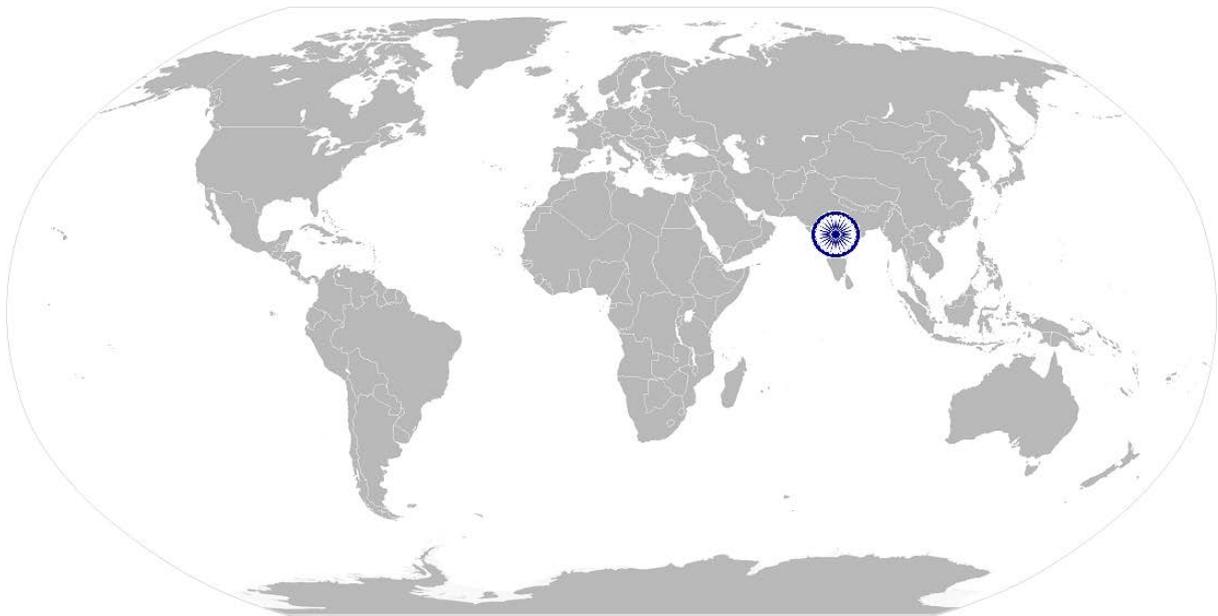
**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

	<p>interventions and assessments</p> <p>SA21. clarify task related information with appropriate personnel or technical adviser</p> <p>SA22. seek to improve and modify own work practices</p> <p>SA23. maintain current knowledge of application standards, legislation, codes of practice and product/process developments</p>
<b>B. Professional Skills</b>	<b>Decision Making</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. follow organizational guidelines in situations involving high level of risk at work</p> <p>SB2. use the quality parameters to take decisions on any variations of work at site from job specification issued</p> <p>SB3. when faced with difficult decisions seek clarification from the supervisor and understand the parameters used by the supervisor to arrive at the decision</p>
	<b>Problem Solving</b>
	<p>SB1. identify problems with work planning, procedures, output and behavior and their implications</p> <p>SB2. prioritize and plan for problem solving</p> <p>SB3. communicate problems appropriately to others</p> <p>SB4. identify sources of information and support for problem solving</p> <p>SB5. seek assistance and support from other sources to solve problems</p> <p>SB6. identify effective resolution techniques</p> <p>SB7. select and apply resolution techniques</p> <p>SB8. seek evidence for problem resolution</p>
	<b>Plan and Organize</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB9. plan, prioritize and sequence work operations as per job requirements</p> <p>SB10. organize and analyze information relevant to work</p> <p>SB11. basic concepts of shop-floor work productivity including waste reduction, efficient material usage and optimization of time</p>
	<b>Initiative and Enterprise</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB12. undertake and express new ideas and initiatives to others</p> <p>SB13. modify work plan to overcome unforeseen difficulties or developments that occur as work progresses</p> <p>SB14. participate in improvement procedures including process, quality and internal/external customer/supplier relationships</p> <p>SB15. one's competencies in new and different situations and contexts to achieve more</p>
	<b>Self-Management</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB16. exercise restraint while expressing dissent and during conflict situations</p> <p>SB17. avoid and manage distractions to be disciplined at work</p>



**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

	SB18. manage own time for achieving better results
--	--

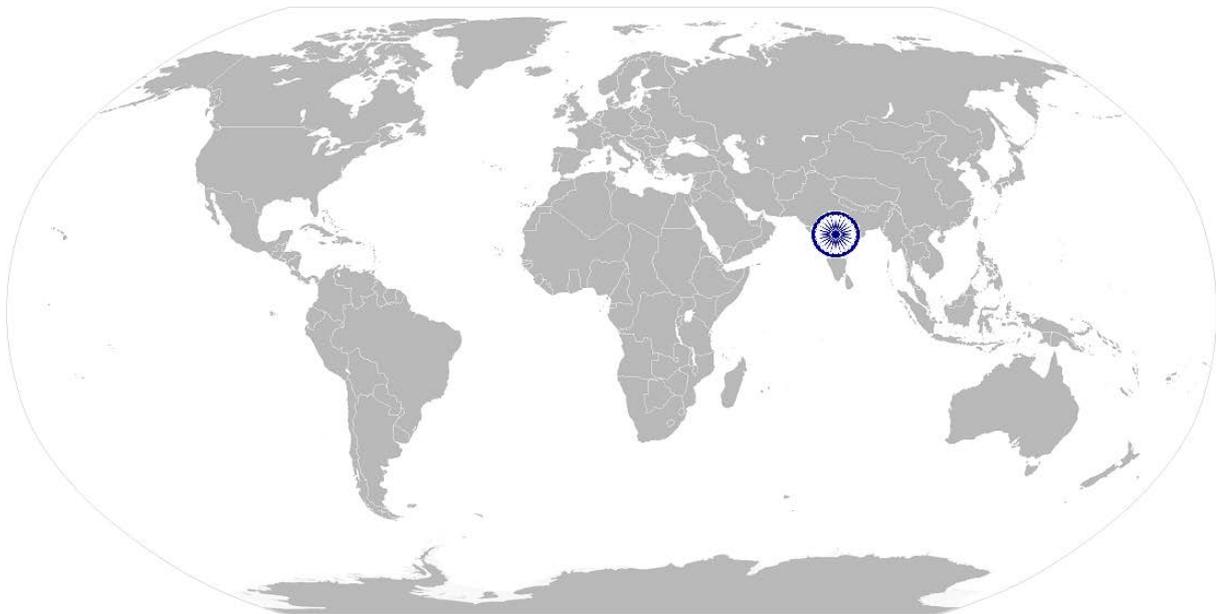




**PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters**

## NOS Version Control

<b>NOS Code</b>	<b>PSS/ N 0114</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Power</b>	<b>Drafted on</b>	<b>26/03/15</b>
<b>Industry Sub-sector</b>	<b>Distribution</b>	<b>Last reviewed on</b>	<b>26/03/15</b>
		<b>Next review date</b>	<b>26/03/17</b>

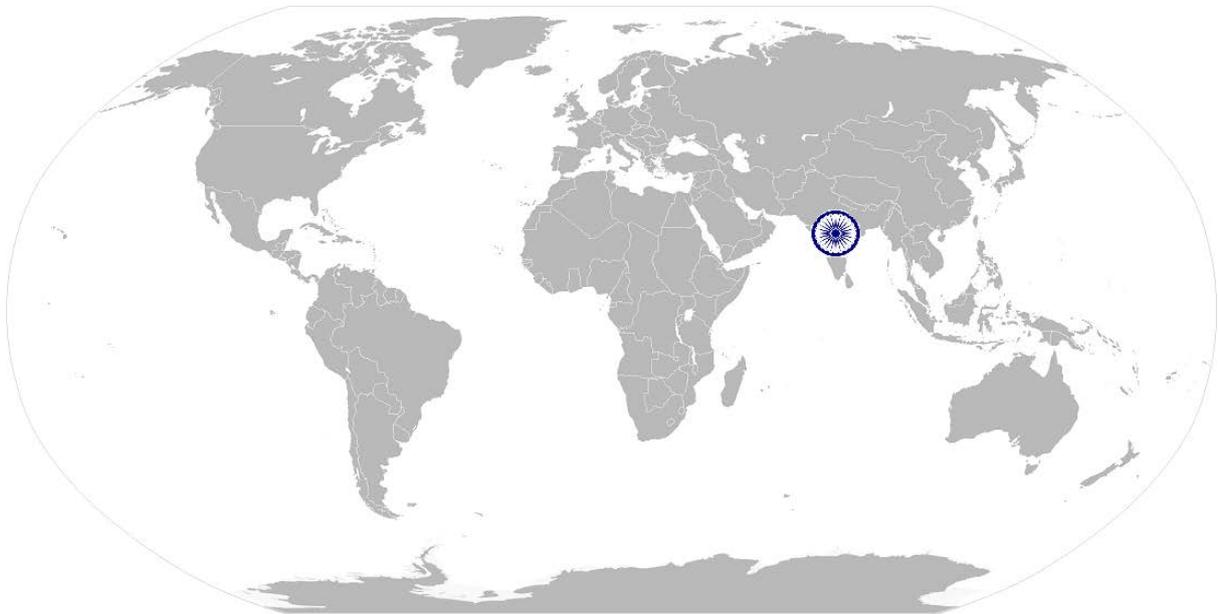




PSS/ N 2001: Use basic health and safety practices for power related work

---

# 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 in a power plant, power station/substation or on the field while working on power equipment.



**PSS/ N 2001: Use basic health and safety practices for power related work**

National Occupational Standard

<b>Unit Code</b>	<b>PSS / N 2001</b>
<b>Unit Title (Task)</b>	<b>Use basic health and safety practices for power related work</b>
<b>Description</b>	<p>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 in a power plant, power station/substation or on the field while working on power equipment. It covers responsibilities towards self, others, assets and the environment.</p> <p>It includes understanding of risks and hazards in the workplace, along with common techniques to minimize risk, deal with accidents, emergencies, etc.</p> <p>It covers knowledge of fire safety, common first aid applications, safe practices and emergency procedures.</p>
<b>Scope</b>	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>Health and safety</li> <li>Fire safety</li> <li>Emergencies, rescue and first-aid procedures</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Health and safety</b>	<p>The user/individual on the job should be able to:</p> <p>PC1. use protective clothing/equipment for specific tasks and work conditions</p> <p><b>Protective clothing:</b> 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</p> <p><b>Equipment:</b> hand and face shields, machine guards, residual current devices, shields, dust sheets, respirator</p> <p>PC2. state the name and location of people responsible for health and safety in the workplace</p> <p>PC3. state the names and location of documents that refer to health and safety in the workplace</p> <p>PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace</p> <p><b>Hazards:</b> 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</p>

**PSS/ N 2001: Use basic health and safety practices for power related work**

	<p>or moist areas, large and heavy objects and machines, sharp and piercing objects, moving objects and part of machinery, tools and machines, intense light, loud noise, abnormal temperature; obstructions in corridors, by doors, blind turns, over stacked shelves and packages, etc.); working in high temperatures</p> <p><b>Possible causes of risk and accident:</b> 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</p> <p>PC5. follow electrical safe working procedures such as Tag out/Lock out, PTW (Permit To Work),</p> <p>PC6. follow warning signs (danger, out of service, etc.) while working with electrical systems</p> <p>PC7. use standard safe working practices when working at heights, confined areas and trenches</p> <p>PC8. test any electrical equipment and system using insulated testing devices before touching them</p> <p>PC9. ensure positive isolation of electrical equipment &amp; system as per given standards</p> <p>PC10. recognize any abnormalities in electrical equipment or system installed alarm annunciation and/or noticing parameters from gauge/ indicator installed</p> <p><b>Parameters:</b> temperature, pressure, flow &amp; current</p> <p>PC11. carry out safe working practices while dealing with hazards to ensure the safety of self and others</p> <p><b>Safe working practices:</b> 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 objects 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. including safety harness, fall arrestors, guardrails, proper work positioning, do not jump or overload, etc.; take due measures for safety while working in confined spaces or trenches, etc.</p> <p>PC12. state methods of accident prevention in the work environment of the job role</p> <p><b>Methods of accident prevention:</b> training in health and safety procedures; using health and safety procedures; use of equipment and working practices (such as safe carrying procedures); safety notices, advice; instruction from colleagues and supervisors</p> <p>PC13. state location of general health and safety equipment in the workplace</p> <p><b>General health and safety equipment:</b> fire extinguishers; first aid equipment; safety instruments and clothing; safety installations(e.g.</p>
--	--

**PSS/ N 2001: Use basic health and safety practices for power related work**

	<p>fire exits, exhaust fans)</p> <p>PC14. inspect for faults, set up and safely use of scaffolds and elevated platforms and ladders  <b>Faults:</b> corrosion of metal components, deterioration, splits and cracks timber components, imbalance, loose rungs, missing/ unfixed nuts or bolts, etc.  <b>Set up:</b> firm/level base, clip/lash down, leaning at the correct angle, appropriate load as per capacity, etc.</p> <p>PC15. lift, carry and transport heavy objects &amp; tools safely using correct procedures from storage to workplace and vice versa</p> <p>PC16. inspect power plant and its equipment routinely for any signs of oil, water and/or steam leakage</p> <p>PC17. store flammable materials and machine lubricating oil safely and correctly</p> <p>PC18. check that the emission and pollution control devices are working properly in line with environmental policy standards</p> <p>PC19. apply good housekeeping practices at all times  <b>Good housekeeping practices:</b> clean/tidy work areas, removal/disposal of waste products, protect surfaces</p> <p>PC20. identify common hazard signs displayed in various areas  <b>Various areas:</b> on chemical containers; equipment; packages; inside buildings; in open areas and public spaces, etc.</p> <p>PC21. retrieve and/or point out documents that refer to health and safety in the workplace  <b>Documents:</b> fire notices, accident reports, safety instructions for equipment and procedures, company notices and documents, legal documents (e.g. government notices)</p> <p>PC22. inform relevant authorities about any abnormal situation/behavior of any equipment/system promptly</p>
<b>Fire safety</b>	<p>The user/individual on the job should be able to:</p> <p>PC23. use the various appropriate fire extinguishers on different types of fires correctly  <b>Types of fires:</b> 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) Class E: e.g. electrical equipment such as appliances, wiring, breaker panels, etc. (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;)</p> <p>PC24. demonstrate rescue techniques applied during fire hazard</p> <p>PC25. demonstrate good housekeeping in order to prevent fire hazards</p> <p>PC26. demonstrate the correct use of a fire extinguisher</p>

**PSS/ N 2001: Use basic health and safety practices for power related work**

<b>Emergencies, rescue and first-aid procedures</b>	<p>The user/individual on the job should be able to:</p> <p>PC27. demonstrate how to free a person from electrocution</p> <p>PC28. administer appropriate first aid to victims where required e.g. in case of bleeding, burns, choking, electric shock, poisoning etc.</p> <p>PC29. demonstrate basic techniques of bandaging</p> <p>PC30. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments</p> <p>PC31. perform and organize loss minimization or rescue activity during an accident in real or simulated environments</p> <p>PC32. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, before the arrival of emergency services in real or simulated cases</p> <p>PC33. demonstrate the artificial respiration and the CPR Process</p> <p>PC34. participate in emergency procedures</p> <p><b>Emergency procedures:</b> raising alarm, safe/efficient, evacuation, correct means of escape, correct assembly point, roll call, correct return to work</p> <p>PC35. complete a written accident/incident report or dictate a report to another person, and send report to person responsible</p> <p><b>Incident Report includes details of:</b> name, date/time of incident, date/time of report, location, environment conditions, persons involved, sequence of events, injuries sustained, damage sustained, actions taken, witnesses, supervisor/manager notified</p> <p>PC36. demonstrate correct method to move injured people and others during an emergency</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. names (and job titles if applicable), and where to find, all the people responsible for health and safety in a workplace.</p> <p>KA2. names and location of documents that refer to health and safety in the workplace.</p>
<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. meaning of “hazards” and “risks”</p> <p>KB2. health and safety hazards commonly present in the work environment and related precautions</p> <p>KB3. possible causes of risk, hazard or accident in the workplace and why risk and/or accidents are possible</p> <p>KB4. possible causes of risk and accident</p> <p><b>Possible causes of risk and accident:</b> 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</p> <p>KB5. methods of accident prevention</p> <p><b>Methods of accident prevention:</b> training in health and safety</p>

**PSS/ N 2001: Use basic health and safety practices for power related work**

	<p>procedures; using health and safety procedures; use of equipment and working practices (such as safe carrying procedures); safety notices, advice; instruction from colleagues and supervisors</p> <p>KB6. safe working practices when working with tools and machines</p> <p>KB7. safe working practices while working at various hazardous sites</p> <p>KB8. where to find all the general health and safety equipment in the workplace</p> <p>KB9. various dangers associated with the use of electrical equipment</p> <p>KB10. positive isolation of electrical equipment and system</p> <p>KB11. safe handling and disposal of hazardous power plant wastes</p> <p>KB12. use of emission and pollution control devices and measures taken to control pollution</p> <p>KB13. various safety procedures and equipment used to work at heights, trenches and confined places</p> <p>KB14. safe working practices specific to working with electrical equipment &amp; system e.g. lock out/ tag out, PTW, etc.</p> <p>KB15. preventative and remedial actions to be taken in the case of exposure to toxic materials  <b>Exposure:</b> ingested, contact with skin, inhaled  <b>Preventative action:</b> ventilation, masks, protective clothing/ equipment);  <b>Remedial action:</b> immediate first aid, report to supervisor  <b>Toxic materials:</b> solvents, flux, lead</p> <p>KB16. importance of using protective clothing/equipment and other insulated work gear while handling electrical system and equipment</p> <p>KB17. precautionary activities taken to prevent fire accident</p> <p>KB18. various causes of fire  <b>Causes of fires:</b> heating of metal; spontaneous ignition; sparking; electrical heating; loose fires (smoking, welding, etc.); chemical fires; etc.</p> <p>KB19. techniques of using the different fire extinguishers</p> <p>KB20. different methods of extinguishing fire</p> <p>KB21. different materials used for extinguishing fire  <b>Materials:</b> sand, water, foam, CO<sub>2</sub>, dry powder</p> <p>KB22. emergency rescue techniques applied during a fire hazard</p> <p>KB23. various types of safety signs and what they mean</p> <p>KB24. appropriate basic first aid treatment relevant to the condition e.g. shock, electrical shock, bleeding, breaks to bones, minor burns, resuscitation, poisoning, eye injuries</p> <p>KB25. content of written accident report</p> <p>KB26. potential injuries and ill health associated with incorrect manual handling</p> <p>KB27. safe lifting, carrying and transporting practices</p> <p>KB28. personal safety, health and dignity issues relating to the movement of a person by others</p> <p>KB29. potential impact to a person who is moved incorrectly</p>
<b>Skills (S) [Optional]</b>	

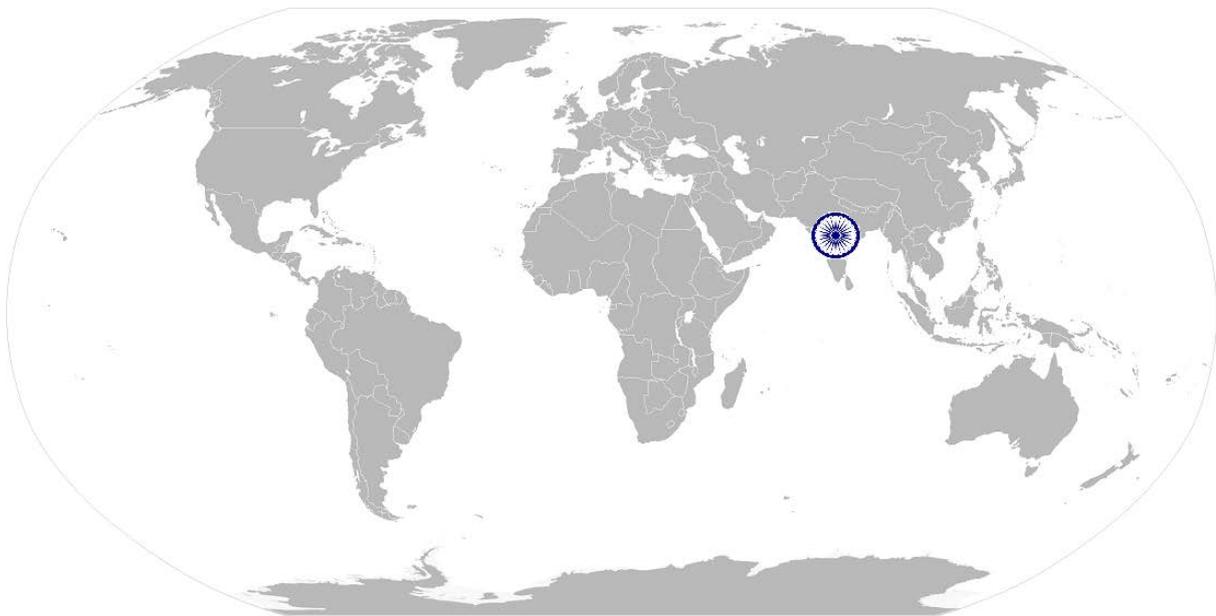
**PSS/ N 2001: Use basic health and safety practices for power related work**

<b>A. Core Skills/ Generic Skills</b>	<b>Reading and Writing Skills</b>
	The user/individual on the job needs to know and understand how to: SA1. read and comprehend basic content to read labels, charts, signages SA2. read and comprehend basic English to read manuals of operations SA3. read and write an accident/incident report in local language or English
	<b>Oral Communication (Listening and Speaking skills)</b>
	The user/individual on the job needs to know and understand how to: SA4. question coworkers appropriately in order to clarify instructions and other issues SA5. give clear instructions to coworkers, subordinates others
	<b>Decision Making</b>
<b>B. Professional Skills</b>	The user/individual on the job needs to know and understand how to: SA6. make appropriate decisions pertaining to the concerned area of work with respect to intended work objective, span of authority, responsibility, laid down procedure and guidelines
	<b>Plan and Organize</b>
	The user/individual on the job needs to know and understand how to: SB1. plan and organize their own work schedule, work area, tools, equipment and materials to maintain decorum and for improved productivity
	<b>Working with others</b>
	The user/individual on the job needs to know and understand how to: SB2. remain congenial while discussing and debating issues with co-workers SB3. follow appropriate protocols for communication based on situation, hierarchy, organizational culture and practice SB4. ask for, provide and receive required assistance where possible to ensure achievement of work related objectives SB5. thank coworkers for any assistance received SB6. offer appropriate respect based on mutuality and respect for fellow workmanship and authority
	<b>Problem Solving</b>
	The user/individual on the job needs to know and understand how to: SB7. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB8. identify immediate or temporary solutions to resolve delays SB9. identify sources of support that can be availed of for problem solving for various kind of problems SB10. seek appropriate assistance from other sources to resolve problems SB11. report problems that you cannot resolve to appropriate authority
<b>Analytical Thinking</b>	



**PSS/ N 2001: Use basic health and safety practices for power related work**

	<p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none"><li>SB12. identify cause and effect relations in their area of work</li><li>SB13. use cause and effect relations to anticipate potential problems and their solution</li></ul>
--	---





**PSS/ N 2001: Use basic health and safety practices for power related work**

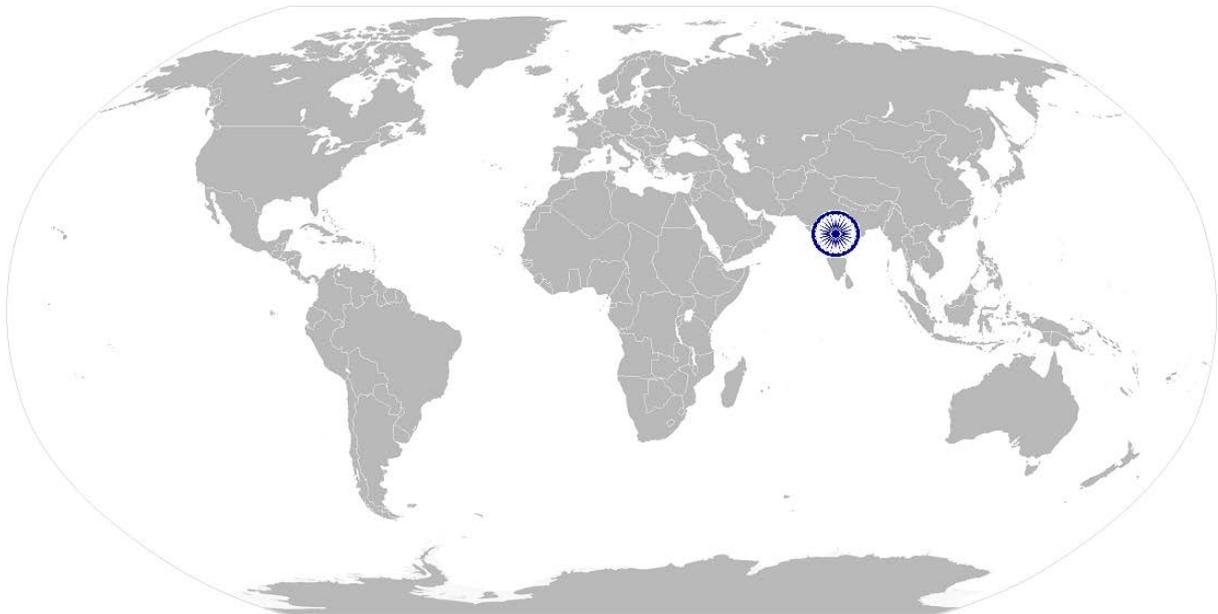
## **NOS Version Control**

<b>NOS Code</b>	<b>PSS / N 2001</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Power</b>	<b>Drafted on</b>	<b>26/03/15</b>
<b>Industry Sub-sector</b>	Generation, Transmission, Distribution, Renewable energy, Equipment manufacturing	<b>Last reviewed on</b>	<b>26/03/15</b>
		<b>Next review date</b>	<b>26/03/17</b>





# National Occupational Standard



## Overview

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



**CSC/ N 1336: Work effectively with others**

<b>Unit Code</b>	<b>CSC / N 1336</b>
<b>Unit Title (Task)</b>	<b>Work effectively with others</b>
<b>Description</b>	<p>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.</p> <p>These cover areas such as communication etiquette, discipline, listening, handling conflict and grievances.</p>
<b>Scope</b>	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>Working with others</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Working with others</b>	<p>The user/individual on the job should be able to:</p> <p>PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required</p> <p>PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt</p> <p>PC3. give information to others clearly, at a pace and in a manner that helps them to understand</p> <p>PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible</p> <p>PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks</p> <p>PC6. display appropriate communication etiquette while working</p> <p><b>Communication etiquette:</b> do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa)etc.</p> <p>PC7. display active listening skills while interacting with others at work</p> <p>PC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism</p> <p>PC9. demonstrate responsible and disciplined behaviors at the workplace</p> <p><b>Disciplined behaviors:</b> e.g. punctuality; completing tasks as per given time and standards; not gossiping and idling time; eliminating waste, honesty, etc.</p> <p>PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. legislation, standards, policies, and procedures followed in the company relevant to own employment and performance conditions</p> <p>KA2. reporting structure, inter-dependent functions, lines and procedures in the work area</p> <p>KA3. relevant people and their responsibilities within the work area</p> <p>KA4. escalation matrix and procedures for reporting work and employment related issues</p>

**CSC/ N 1336: Work effectively with others**

**B. Technical Knowledge**

- The user/individual on the job needs to know and understand:
- KB1. various categories of people that one is required to communicate and co-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
  - KB7. 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
  - KB10. how poor communication practices can disturb people, environment and cause problems for the employee, the employer and the customer
  - KB11. importance of ethics for professional success
  - KB12. importance of discipline for professional success
  - KB13. what constitutes disciplined behavior for a working professional
  - KB14. common reasons for interpersonal conflict
  - KB15. importance of developing effective working relationships for professional success
  - KB16. expressing and addressing grievances appropriately and effectively
  - KB17. importance and ways of managing interpersonal conflict effectively

**Skills (S) [Optional]**





**CSC/ N 1336: Work effectively with others**

## **NOS Version Control**

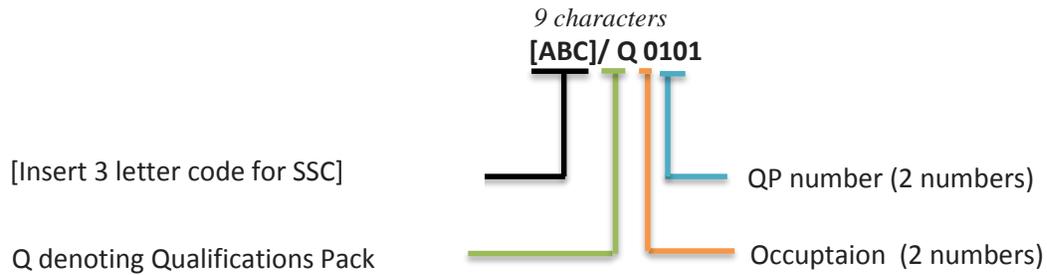
<b>NOS Code</b>	<b>CSC / N 1336</b>		
<b>Credits(NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Power Sector</b>	<b>Drafted on</b>	<b>26/03/15</b>
<b>Industry Sub-sector</b>	Power Generation Power Transmission Power Distribution Renewable Energy Power Equipment Manufacturing	<b>Last reviewed on</b>	<b>26/03/15</b>
		<b>Next review date</b>	<b>26/03/17</b>



## Annexure

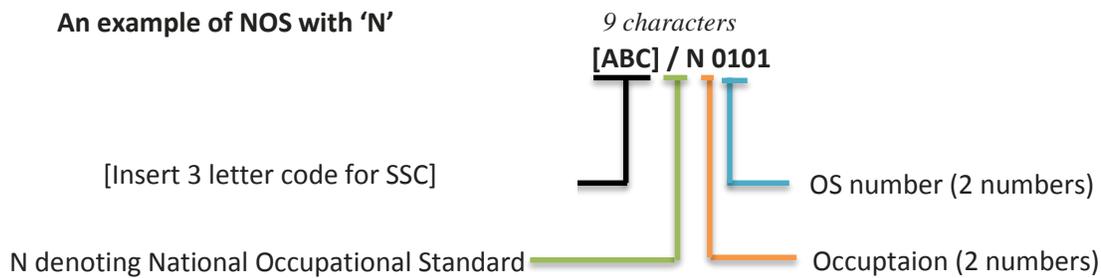
### Nomenclature for QP and NOS

#### Qualifications Pack



#### Occupational Standard

##### An example of NOS with 'N'



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

Sub-sector	Range of Occupation numbers
Generation	01-10
Transmission	01-10
Distribution	01-10
Renewable Energy	01-10
Power Equipment Manufacturing	01-10

Sequence	Description	Example
Three letters	Power	PSS
Slash	/	/
Next letter	Whether QP or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01



## CRITERIA FOR ASSESSMENT OF TRAINEES

**Job Role** Consumer Energy Meter Technician

**Qualification Pack** PSS/ Q 0107

**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. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

		Mark Allocation			
		Total Mark (300)	Out of	Theory	Skills Practical
PSS/ N 0114: Manually remove, change and install Low Voltage, single and three phase meters	PC1. obtain job specification or work order from responsible authority		2	0	2
	PC2. select and use appropriate personal protective equipment (PPE) suitable to the work as per occupational health and safety guidelines		3	1	2
	PC3. select and use appropriate tools and equipment in accordance with the tasks		3	1	2
	PC4. confirm that the selected tools and equipment are safe and ready for use		2	0	2
	PC5. verify the distance between the poles or cables is correct		2	0	2
	PC6. check the underground and/or overhead cables are laid correctly as per work order		2	0	2

	PC7. plan and locate the area inside or outside the customer's premise after assessing possible risks	3	0	3
	PC8. check that the identified area is accessible to carry out installation, meter testing, commissioning, reading, recording and maintenance	2	0	2
	PC9. ensure the energy meter is correct, examined and tested, and meets all the parameters and specifications set by the Bureau of Indian Standards (BIS)	4	2	2
	PC10. follow safe working practices in accordance with instructions given in the organizational standards and regulations to prevent injury to self and others while carrying out work	4	1	3
	PC11. inspect the facility's wiring system and recognize any possible risks to be isolated such as faulty circuit, loose ends, naked wires, etc.	3	0	3
	PC12. check the consumer's wiring system for any common phase or looping of phase of two or more consumers	3	0	3
	PC13. inform all affected parties of the intended work plan in advance prior to disconnecting power supply line	2	0	2
	PC14. install the energy meter and required supportive equipment using appropriate insulated tools and devices as per organizational procedures	6	2	4
	PC15. equip the energy meter with various anti-tampering features as per regulations and organizational procedures	6	2	4
	PC16. establish immunity against various types of external factors in accordance with relevant regulations	4	1	3
	PC17. ensure the energy meter displays one of more of the following parameters depending upon the tariff requirement for different categories of consumers	4	1	3

	PC18. check that any replaced or repaired equipment are working properly and customer's problems are duly resolved efficiently	3	1	2
	PC19. check the energy meter for earth leakage indication as per relevant regulations	3	1	2
	PC20. test and calibrate the energy meter using appropriate testing devices in line with organizational quality standards and regulations	6	2	4
	PC21. identify and escalate unresolved problems to appropriate authority for rectifications	3	0	3
	PC22. establish the reason for changing the energy meter from responsible source in order to plan the work out	2	0	2
	PC23. identify the meter type, required tools and devices and the recommended removal procedures	5	2	3
	PC24. replace the same with a duly tested energy meter as per instructions given in organizational guidelines and regulations	4	2	2
	PC25. test to confirm that the replaced energy meter conforms to required work specifications	3	1	2
	PC26. record the metered data and maintain all the information related to the consumer's energy meter	2	0	2
	PC27. verify the accuracy of the metered data	3	0	3
	PC28. maintain consumer meters' account history, installation date and testing details, calibration and replacement of meters in line with organizational standards and policies	3	1	2
	PC29. check that tools and devices used are disassembled and stored safely as per instructions	3	1	2
	PC30. dispose waste materials such as wires, tapes, plastic caps, etc. in line with safety and environmental procedures	3	1	2

	PC31. leave the work area is in safe conditions and clear of any hazardous substances		2	0	2
		<b>Total</b>	<b>100</b>	<b>23</b>	<b>77</b>
PSS/ N 2001 (Use basic health and safety practices at the workplace)	PC1. use protective clothing/equipment for specific tasks and work conditions	<b>100</b>	3	0	3
	PC2. state the name and location of people responsible for health and safety in the workplace		2	0	2
	PC3. state the names and location of documents that refer to health and safety in the workplace		2	0	2
	PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace		3	1	2
	PC5. follow electrical safe working procedures such as Tag out/Lock out, PTW (Permit To Work),		3	1	2
	PC6. follow warning signs (danger, out of service, etc.) while working with electrical systems		3	1	2
	PC7. use standard safe working practices when working at heights, confined areas and trenches		3	1	2
	PC8. test any electrical equipment and system using insulated testing devices before touching them		3	1	2
	PC9. ensure positive isolation of electrical equipment & system as per given standards		3	1	2
	PC10. recognize any abnormalities in electrical equipment or system installed alarm annunciation and/or noticing parameters from gauge/ indicator installed		3	1	2
	PC11. carry out safe working practices while dealing with hazards to ensure the safety of self and others		3	1	2
	PC12. state methods of accident prevention in the work environment of the job role		2	0	2
	PC13. state location of general health and safety equipment in the workplace		2	0	2
	PC14. inspect for faults, set up and safely use of scaffolds and elevated		2	0	2

platforms and ladders			
PC15. lift, carry and transport heavy objects & tools safely using correct procedures from storage to workplace and vice versa	3	1	2
PC16. inspect power plant and its equipment routinely for any signs of oil, water and/or steam leakage	3	0	3
PC17. store flammable materials and machine lubricating oil safely and correctly	2	0	2
PC18. check that the emission and pollution control devices are working properly in line with environmental policy standards	5	2	3
PC19. apply good housekeeping practices at all times	3	1	2
PC20. identify common hazard signs displayed in various areas	2	0	2
PC21. retrieve and/or point out documents that refer to health and safety in the workplace	2	0	2
PC22. inform relevant authorities about any abnormal situation/behavior of any equipment/system promptly	3	0	3
PC23. use the various appropriate fire extinguishers on different types of fires correctly	4	1	3
PC25. demonstrate good housekeeping in order to prevent fire hazards	3	1	2
PC26. demonstrate the correct use of a fire extinguisher	3	1	2
PC27. demonstrate how to free a person from electrocution	3	1	2
PC28. administer appropriate first aid to victims where required e.g. in case of bleeding, burns, choking, electric shock, poisoning etc.	3	0	3
PC29. demonstrate basic techniques of bandaging	3	1	2
PC30. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments	3	1	2



	PC31. perform and organize loss minimization or rescue activity during an accident in real or simulated environments		3	1	2
	PC32. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, before the arrival of emergency services in real or simulated cases		3	1	2
	PC33. demonstrate the artificial respiration and the CPR Process		3	1	2
	PC34. participate in emergency procedures		3	1	2
	PC35. complete a written accident/incident report or dictate a report to another person, and send report to person responsible		3	1	2
	PC36. demonstrate correct method to move injured people and others during an emergency		3	1	2
		<b>Total</b>	<b>100</b>	<b>24</b>	<b>76</b>
CSC/ N 1336 (Work effectively with others)	PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required	<b>100</b>	10	3	7
	PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt		10	3	7
	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		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,		10	3	7



*Qualifications Pack For Consumer Energy Meter Technician*



	assertiveness, care and professionalism			
	PC9. demonstrate responsible and disciplined behaviors at the workplace	10	3	7
	PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict	10	3	7
	<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>