

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR POWER SECTOR

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

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Introduction

Qualifications Pack: Assistant GIS Mapping - Power Distribution

SECTOR: Power

SUB-SECTOR: Distribution

OCCUPATION: Surveyor

REFERENCE ID: PSS/Q3006

ALIGNED TO: NCO-2004/NIL

Assistant GIS Mapping - Power Distribution: Responsible for GIS mapping of power distribution system assets such as pole, substation, O/H line, U/G cable, feeder pillar and line path as well as gathering GIS data (positional data) of physical electrical system. The person needs to have operational familiarity with tools of GIS mapping- GPS system, DGPS system etc.

Brief Job Description: Under supervision carries out GIS mapping of power distribution assets and line path capturing longitude and latitude of every asset's location.

Personal Attributes: Work is performed in outdoors and requires to visit asset locations. Work requires the ability to read and write GIS data in requisite format. The person should be well versed with all the type of assets of power distribution system.



Qualifications Pack For Assistant GIS Mapping-
Power Distribution



Job Details	Qualifications Pack Code	PSS/Q3006		
	Job Role	Assistant GIS Mapping - Power Distribution		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Power	Drafted on	18/01/2016
	Sub-sector	Distribution	Last reviewed on	19/07/2016
	Occupation	Surveyor	Next review date	19/07/2018
	NSQC Clearance Date	Not Applicable		

Job Role	Assistant GIS Mapping - Power Distribution
Role Description	Responsible for GIS mapping of power distribution system assets such as pole, substation, O/H line, U/G cable, feeder pillar and line path as well as gathering GIS data(positional data) of physical electrical system. The person needs to have Operational familiarity with tools of GIS maping- GPS system, DGPS system etc.
NSQF level	3
Minimum Educational Qualifications	12th Pass
Maximum Educational Qualifications	Not Applicable
Training (Suggested but not mandatory)	Not Applicable
Minimum Job Entry Age	18 Years
Experience	Not Applicable
Applicable National Occupational Standards (NOS)	Compulsory: <ol style="list-style-type: none"> PSS/N3011 GIS Mapping PSS/N2001 Use basic health and safety practices as the workplace PSS/N1336 Work effectively with others Optional: Not Applicable
Performance Criteria	As described in the relevant OS units



Definitions

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.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or 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.
Job role	Job role defines unique set of functions that together form a unique employment opportunity in an organization.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve consistently while 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.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Qualifications Pack(QP)	Qualifications Pack comprises set of OS, together with the educational, training and 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.
Knowledge and Understanding	Knowledge and Understanding are statements which together as a set specify the technical, generic, professional and organization specific knowledge that an individual needs to possess in order to perform and meet the required standards consistently.
Organizational Context	Organizational Context includes the way the organization is structured and how it 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.



Qualifications Pack For Assistant GIS Mapping-Power
Distribution

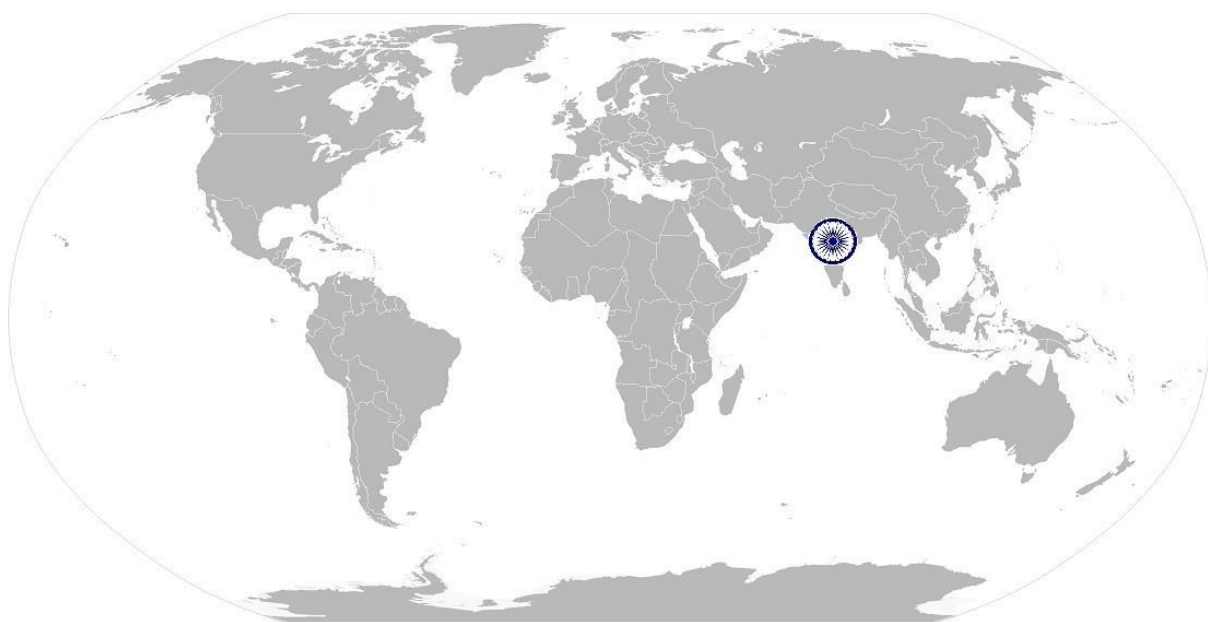


Technical Knowledge	Technical Knowledge is the specific domain knowledge needed to accomplish the task in combination with other competencies. It is usually coined with specifically designated roles and responsibilities.
Core Skills/Generic Skills	Core Skills or Generic Skills as set are group of skills. It is key to working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include mainly communication related skills that are applicable to most job roles.
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.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Keywords /Terms	Description
PPE	Personal Protective Equipment
GIS	Geographical information System
GPS	Geographical Positioning System
DGPS	Differential Geographical Positioning System
KW	Kilowatt
V	Volt
KWH	Kilo Watt Hour
PTW	Permit to work
CPR	Cardiopulmonary Resuscitation

Acronyms



National Occupational Standard



Overview

This unit is about the GIS mapping of power distribution assets.



PSS/N3011

GIS Mapping

National Occupational Standard

Unit Code	PSS/N3011
Unit Title (Task)	GIS Mapping
Description	Assistant GIS Mapping-Power Distribution shall be responsible for GIS mapping of all the power distribution system assets
Scope	This unit/task covers the following: <ul style="list-style-type: none">GIS survey
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
GIS Survey	<p>The user/individual on the job needs to:</p> <p>PC1. identify various power distribution related assets</p> <p>PC2. identify different types and location of power distribution assets – substation, pole, transformer, cable, line, feeder pillar etc.</p> <p>PC3. ensure proper use of GIS and GPS tools</p> <p>PC4. ensure correct reading of indexing(name plate) of assets</p> <p>PC5. ensure correct reading and marking longitude and latitude of asset on the area map</p> <p>PC6. prepare GIS data in requisite format</p> <p>PC7. capture/update GIS data of the assets as close as possible to minimize positional error</p> <p>PC8. prepare documentation for recording the GIS data of distribution assets</p> <p>PC9. manage data files on a daily basis to ensure data integrity and data security</p> <p>PC10. interpret map information to determine the best approach to efficiently surveying project area</p> <p>PC11. identify specific landmark while undertaking GIS mapping of assets</p> <p>PC12. report to GIS Manager for GPS issues</p> <p>PC13. implementation of GIS based softwares to map the asset coordinates</p>
Knowledge and Understanding (K)	
A. Organizational Context	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. relevant legislation, standards, policies, and procedures followed in the organisation relevant to own employment and performance conditions</p> <p>KA2. relevant health and safety requirements applicable in the work place</p> <p>KA3. own job role and responsibilities and sources for information pertaining to employment terms, entitlements, job role and responsibilities</p> <p>KA4. reporting structure, inter-dependent functions, lines and procedures in the work area</p> <p>KA5. how to engage with specialists for support in order to resolve incidents and service requests</p> <p>KA6. importance of working in clean and safe environment practices and procedures</p> <p>KA7. relevant people and their responsibilities within the work area</p> <p>KA8. escalation matrix and procedures for reporting work and employment related issues</p>



PSS/N3011

GIS Mapping

B. Technical Knowledge	<p>The individual on the job needs to know and understand:</p> <p>KB1. GPS, DGPS and GIS technology & terminology</p> <p>KB2. operational familiarity of GIS, GPS and DGPS tools</p> <p>KB3. GIS software and basic computer skill</p> <p>KB4. all types of power distribution assets</p> <p>KB5. process of capturing longitude and latitude of all the line connected assets from substation to the last consumers</p> <p>KB6. common electricity terminology and correct interpretation of the same terminology: e.g. Current, Voltage, Resistance, Kilowatt (kw), Kilowatt hour (kwh)</p> <p>KB7. power distribution system</p> <p>KB8. appropriate judgment and initiative pertaining to work methods and tools</p> <p>KB9. technical manuals, layout drawings, schematics, diagrams, plans, specifications estimate time, material and equipment needed to complete assignments</p> <p>KB10. how to update DGPS and GPS software</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. note the information communicated by the supervisor or engineer</p> <p>SA2. note down observations (if any) identified while conducting the duties</p> <p>SA3. note down the readings, specific information gathered while GIS mapping of assets</p>
	Reading Skills
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. read and interpret the process required for various types of operations</p> <p>SA5. read and interpret and process flowchart for all operations</p> <p>SA6. read manuals and operation documents to understand the equipment used into operation</p> <p>SA7. read GPS devices</p>
	Oral Communication (Listening and Speaking skills)
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA8. discuss task lists, schedules and activities with the supervisor</p> <p>SA9. effectively communicate with the team members</p>
B. Professional Skills	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. follow organization rule-based decision making process</p> <p>SB2. take decisions with systematic course of actions and/or response</p>
	Plan and Organize
	<p>The user/individual on the job needs to know and understand:</p> <p>SB3. planning and organization of tasks to meet deadlines</p>
	Customer Centricity



PSS/N3011

GIS Mapping

	The user/individual on the job needs to know and understand how to: SB4. Interact with customers if required to understand the asset location such as energy meters to take GPS coordinates
	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. apply domain information to set and define operation parameters that ensures economy and quality of the product
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB8. critically evaluate operation parameters in relation to product features intended SB9. develop a holistic and comprehensive profile of the work based on segregated discrete process stages

NOS Version Control

NOS Code	PSS/N3011 		
Credits (NSQF)	TBD	Version number	1.0
Industry	Power	Drafted on	18/01/2016
Industry Sub-sector	Distribution	Last reviewed on	19/07/2016
Occupation	Surveyor	Next review date	19/07/2018

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NOS
National Occupational Standards



PSS/N2001

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.



PSS/N2001 Use basic health and safety practices for power related work

National Occupational Standard

Unit Code	PSS/N2001
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. It covers responsibilities towards self, others, assets and the environment. .
Scope	This unit/task covers the following: <ul style="list-style-type: none">• health and safety• fire safety• emergencies, rescue and first-aid procedures
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Health and safety	<p>The user/individual on the job needs to:</p> <p>PC1. use protective clothing/equipment for specific tasks and work conditions.</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>PC5. follow electrical safe working procedures such as Tag out/Lock out and display 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 & 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>PC11. carry out safe working practices while dealing with hazards to ensure the safety of self and others</p> <p>PC12. state methods of accident prevention in the work environment of the job role</p> <p>PC13. state location of general health and safety equipment in the workplace</p> <p>PC14. inspect for faults, set up and safely use of scaffolds and elevated platforms and ladder</p> <p>PC15. lift,carry and transport heavy objects & tools safely using correct procedures from storage to workplace and vice versa</p> <p>PC16. inspect Grid station and its equipment routinely for any signs of oil and water 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</p>



PSS/N2001 Use basic health and safety practices for power related work

	<p>line with environmental policy standards</p> <p>PC19. apply good housekeeping practices at all times</p> <p>PC20. identify common hazard signs displayed in various areas</p> <p>PC21. retrieve and/or point out documents that refer to health and safety in the workplace</p> <p>PC22. inform relevant authorities about any abnormal situation/behavior of any equipment/system promptly</p>
Fire safety	<p>The user/individual on the job needs to:</p> <p>PC23. use the various appropriate fire extinguishers on different types of fires correctly</p> <p>PC24. distinguish types of fire</p> <p>PC25. demonstrate rescue techniques applied during fire hazard</p> <p>PC26. demonstrate good housekeeping in order to prevent fire hazards</p> <p>PC27. demonstrate the correct use of a fire extinguisher</p>
Emergencies, rescue and first-aid procedures	<p>The user/individual on the job needs to:</p> <p>PC28. demonstrate how to free a person from electrocution</p> <p>PC29. administer appropriate first aid to victims where required e.g. in case of bleeding, burns, choking, electric shock, poisoning etc.</p> <p>PC30. demonstrate basic techniques of bandaging</p> <p>PC31. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments</p> <p>PC32. perform and organize loss minimization or rescue activity during an accident in real or simulated environments</p> <p>PC33. 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>PC34. demonstrate the artificial respiration and the CPR Process</p> <p>PC35. participate in emergency procedures Emergency procedures: raising alarm, safe/efficient, evacuation, correct means of escape, correct assembly point, roll call, correct return to work</p> <p>PC36. complete a written accident/incident report or dictate a report to another person, and send report to person responsible</p> <p>PC37. demonstrate correct method to move injured people and others during an emergency</p>
Knowledge and Understanding (K)	
A. Organizational Context	<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>

PSS/N2001 Use basic health and safety practices for power related work

<p>B. Technical Knowledge</p>	<p>The 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>KB5. methods of accident prevention</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 & 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</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</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</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>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. note the information communicated by the officer incharge.</p> <p>SA2. note down observations (if any) related to the operation/maintenance.</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read and interpret the process required for different types of manuals for maintenance.</p> <p>SA4. read and interpret the flowchart of all parts of an assembly.</p> <p>SA5. read manuals and documents to understand the product-details & how they</p>



PSS/N2001 Use basic health and safety practices for power related work

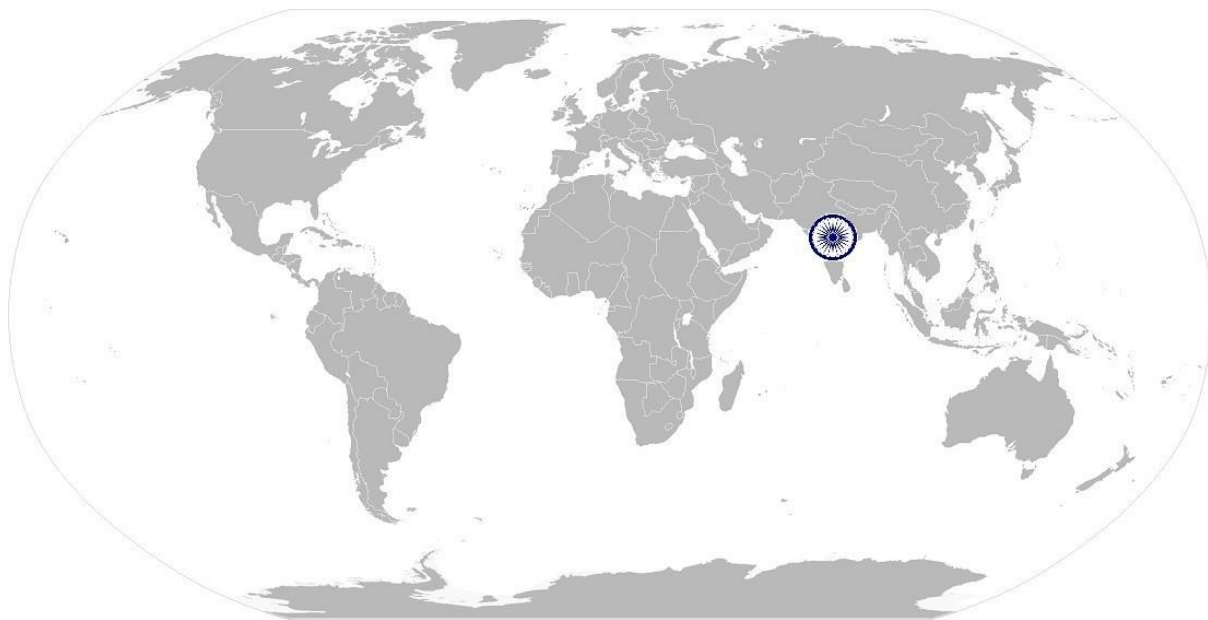
	can be used.
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA6. discuss task lists, schedules and activities with the colleague/supervisor. SA7. effectively communicate with the team members. SA8. attentively listen and comprehend the information given by the colleague/supervisor/contractor. SA9. communicate clearly with the colleague 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 colleague/contractor rule-based decision making process. SB2. take decisions 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: 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. work 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 system normality SB10. develop a holistic and comprehensive profile of grid station on segregated discrete process stages of blank forming processes



PSS/N2001 Use basic health and safety practices for power related work

NOS Code	PSS/N2001		
Credits (NSQF)	TBD	Version number	1.0
Industry	Power	Drafted on	04/06/2016
Industry Sub-sector	Generation, Transmission & Distribution	Last reviewed on	19/07/2016
Occupation	Technician	Next review date	19/07/2018

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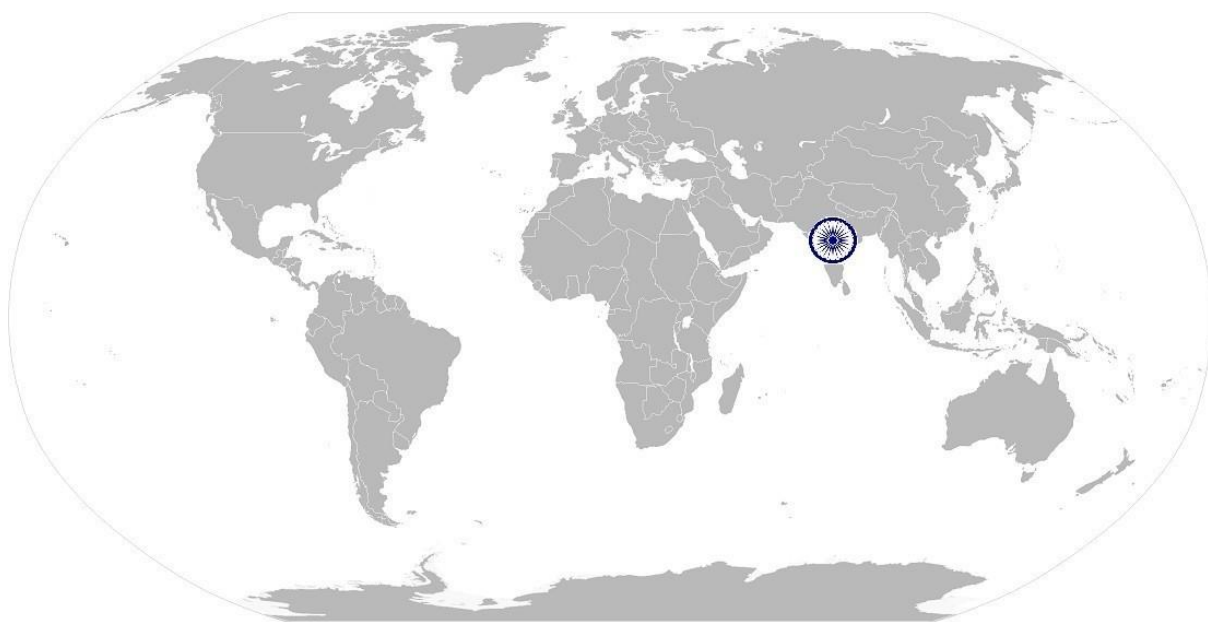
NOS
National Occupational Standards



PSS/N1336

Work effectively with others

National Occupational Standard



Overview

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



PSS/N1336

Work effectively with others

National Occupational Standard

Unit Code	PSS/N1336
Unit Title (Task)	Work effectively with others
Description	<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>
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none">• working with others
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Working with others	<p>The user/individual on the job should be able to:</p> <ul style="list-style-type: none">PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where requiredPC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receiptPC3. give information to others clearly, at a pace and in a manner that helps them to understandPC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possiblePC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasksPC6. display appropriate communication etiquette while working .PC7. display active listening skills while interacting with others at workPC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalismPC9. demonstrate responsible and disciplined behavior at the workplacePC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none">KA1. legislation, standards, policies, and procedures followed in the organisation relevant to own employment and performance conditionsKA2. reporting structure, inter-dependent functions, lines and procedures in the work areaKA3. relevant people and their responsibilities within the work areaKA4. escalation matrix and procedures for reporting work and employment related issues



PSS/N1336

Work effectively with others

B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none">KB1. various categories of people that one is required to communicate and co-ordinate with in the organizationKB2. importance of effective communication in the workplaceKB3. importance of teamwork in organizational and individual successKB4. various components of effective communicationKB5. key elements of active listeningKB6. value and importance of active listening and assertive communicationKB7. barriers to effective communicationKB8. importance of tone and pitch in effective communicationKB9. importance of avoiding casual expletives and unpleasant terms while communicating professional circlesKB10. how poor communication practices can disturb people, environment and cause problems for the employee, the employer and the customerKB11. importance of ethics for professional successKB12. importance of discipline for professional successKB13. what constitutes disciplined behavior for a working professionalKB14. common reasons for interpersonal conflictKB15. importance of developing effective working relationships for professional successKB16. how to express and address grievances appropriately and effectivelyKB17. importance and ways of managing interpersonal conflict effectively
Skills (S) (Optional)	
A. Core Skills/ Generic Skills	Writing Skills
	<p>The user/ individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none">SA1. note the information communicated by the officer incharge.SA2. note down observations (if any) related to the operation/maintenance.
	Reading Skills
	<p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none">SA3. read and interpret the process required for different types of manualsSA4. 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)
	<p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none">SA6. discuss task lists, schedules and activities with the colleague/supervisor.SA7. effectively communicate with the team members.SA8. attentively listen and comprehend the information given by the colleague/supervisor/contractor.SA9. communicate clearly with the colleague on the issues faced during query/fault.
B. Professional Skills	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none">SB11. follow colleague/contractor rule-based decision making process.



PSS/N1336

Work effectively with others

	SB12. take decisions with systematic course of actions and/or response.
	Plan and Organize
	The user/individual on the job needs to know and understand: SB13. planning and organization of tasks to meet deadlines.
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB14. build customer relationships and use customer centric approach.
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB15. seek and comprehend operation related inputs for clarification 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: SB16. work systematically and logically to resolve the issues and identify causation and anticipate unexpected results.quick approach and solution towards faults repairing.
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB17. critically evaluate operation parameters in relation to system normality develop a holistic and comprehensive profile of grid station on segregated discrete process stages of blank forming processes

NOS Version Control

NOS Code	PSS/N1336		
Credits (NSQF)	TBD	Version number	1.0
Industry	Power	Drafted on	04/06/2016
Industry Sub-sector	Generation, Transmission & Distribution	Last reviewed on	19/07/2016
Occupation	Technician	Next review date	19/07/2018

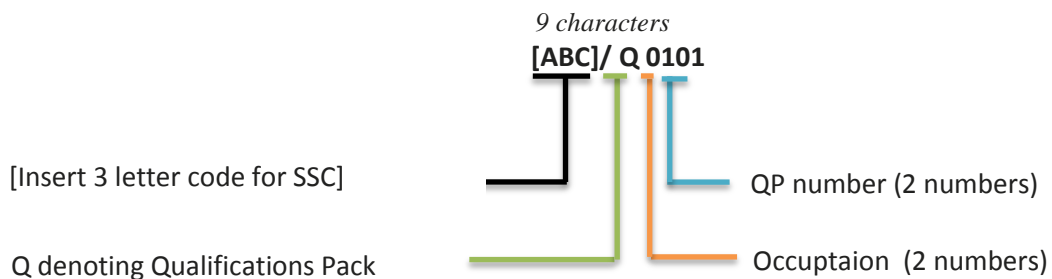
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Annexure

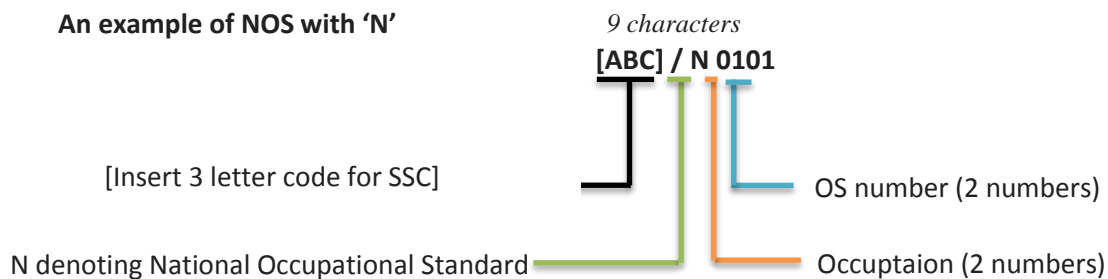
Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard

An example of NOS with 'N'





Qualifications Pack for Assistant GIS Mapping -
Power Distribution



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

Sub-sector	Range of Occupation numbers
[Insert Name of Sub-sector1, Font: Calibri (Body), size 11, Bold]	[Insert range]
[Insert Name of Sub-sector2, Font: Calibri (Body), size 11, Bold]	[Insert range]
[Insert Name of Sub-sector3, Font: Calibri (Body), size 11, Bold]	[Insert range]
[Insert Name of Sub-sector4, Font: Calibri (Body), size 11, Bold]	[Insert range]
...	...

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



Assessment Criteria

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Assistant GIS Mapping - Power Distribution

Qualification Pack PSS/Q3006

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

Assessable Outcomes	Assessment Criteria for Outcomes	Marks Allocation			
		Total Marks	Out Of	Theory	Skills Practical
1. PSS/N3011 GIS Mapping	PC1. identify various power distribution related assets	100	6	3	3
	PC2. identify different types and location of power distribution assets – substation, pole, transformer, cable, line, feeder pillar etc		7	4	3
	PC3. ensure proper use of GIS and GPS tools		4	2	2
	PC4. ensure correct reading of indexing(name plate) of assets		7	2	5
	PC5. ensure correct reading and marking longitude and latitude of asset on the area map		5	2	3
	PC6. prepare GIS data in requisite format		5	1	4



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	PC7. capture/update GIS data of the assets as close as possible to minimize positional error		5	2	3
	PC8. prepare documentation for recording the GIS data of distribution assets		5	2	3
	PC9. manage data files on a daily basis to ensure data integrity and data security		4	1	3
	PC10. interpret map information to determine the best approach to efficiently surveying project area		9	2	7
	PC11. identify specific landmark while undertaking GIS mapping of assets		8	4	4
	PC12. report to GIS Manager for GPS issues		6	2	4
	PC13. Implement GIS based softwares to map the asset coordinates		6	2	4
			100	31	69
2. PSS/N2001 Use basic health and safety practices for power related work	PC1. use protective clothing/equipment for specific tasks and work conditions.	100	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 and display PTW (Permit To Work),		3	1	2
	PC6. follow warning signs (danger, out of service, etc.) while working with electrical systems		3	1	2



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	PC7. use standard safe working practices when working at heights, confined areas and trench		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 platforms and ladder		2	0	2
	PC15. lift, carry and transport heavy objects & tools safely using correct procedures from storage to workplace and vice versa		2	1	1
	PC16. inspect Grid station and its equipment routinely for any signs of oil and water leakage		2	0	2
	PC17. store flammable materials and machine lubricating oil safely and correctly		2	0	2



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	PC18. check that the emission and pollution control devices are working properly in line with environmental policy standards		3	1	2
	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		2	1	1
	PC24. distinguish types of fire		3	1	2
	PC25. demonstrate rescue techniques applied during fire hazard		3	1	2
	PC26. demonstrate good housekeeping in order to prevent fire hazards		3	1	2
	PC27. demonstrate the correct use of a fire extinguisher		3	1	2
	PC28. demonstrate how to free a person from electrocution		3	1	2
	PC29. administer appropriate first aid to victims where required e.g. in case of bleeding, burns, choking, electric shock, poisoning etc.		3	0	3
	PC30. demonstrate basic techniques of bandaging		3	1	2
	PC31. respond promptly and appropriately to an accident situation or medical emergency in real or simulated		3	1	2



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	environments				
	PC32. perform and organize loss minimization or rescue activity during an accident in real or simulated environments		3	1	2
	PC33. 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
	PC34. demonstrate the artificial respiration and the CPR Process		3	1	2
	PC35. participate in emergency procedures Emergency procedures: raising alarm, safe/efficient, evacuation, correct means of escape, correct assembly point, roll call, correct return to work		3	1	2
	PC36. complete a written accident/incident report or dictate a report to another person, and send report to person responsible		3	1	2
	PC37. demonstrate correct method to move injured people and others during an emergency		3	1	2
			100	24	76
3. PSS/N1336 Work effectively with others	PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required	100	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



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	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, assertiveness, care and professionalism		10	3	7
	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
			100	30	70