



# **OUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR POWER SECTOR**

## What are **Occupational** Standards(OS)?

Ø OS describe what individuals need to do, know and understand in order to carry out a particular job role or function

Ø 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- Tower Erection Power** Transmission

SECTOR: Power SUB-SECTOR: Transmission **OCCUPATION:** Tower Erection REFERENCE ID: PSS/O2003 ALIGNED TO: NCO-2004/NIL

Assistant- Tower Erection Power Transmission requires possessing knowledge of erection & commissioning of power transmission tower

Brief Job Description: Under supervision, carrying out and assist in erection & commissioning of power transmission towers of all the types

Personal Attributes: Work is performed mostly outdoors in all weather conditions. Work requires the ability to perform manual activities. Work also involves bending, climbing, pulling, lifting and carrying, kneeling, walking, and standing for significant periods of time. Candidate will be exposed to different geographical area and irregular terrain.





Qualifications Pack Code	PSS/Q2003		
Job Role	Assistant Tower Erection Power Transmission		
Credits (NSQF)	TBD	Version number	1.0
Sector	Power	Drafted on	25/01/2016
Sub-sector	Transmission	Last reviewed on	19/07/2016
Occupation	Tower erection	Next review date	19/07/2018
NSQC Clearance Date	Not Applicable		

Job Role	ASSISTANT- TOWER ERECTION POWER TRANSMISSION
Role Description	Under supervision, carries out and assist in tower erection & commissioning of transmission tower. In addition the candidate will assist in material handling.
NSQF level	3
Minimum Educational Qualifications	10 <sup>th</sup> Standard
Maximum Educational Qualifications	Not Applicable
Training (Suggested but not mandatory)	Not Applicable
Minimum Job Entry Age	18 Years
Experience	Not Applicable
	Compulsory:
Applicable National Occupational Standards (NOS)	<ol> <li><u>PSS/N2006 Carry out erection of transmission tower</u></li> <li><u>PSS/N2001 Use basic health and safety practices as the workplace</u></li> <li><u>PSS/N1336 Work effectively with others</u></li> </ol>
	Optional:
Derformance Criteria	Not Applicable As described in the relevant OS units
Performance Criteria	As described in the relevant US units





	Keywords /Terms	Description
Definitions	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.
Defii	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.
	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.
	Keywords /Terms	Description
S	PPE	Personal Protective Equipment
ym	KW	Kilowatt
Acronyms	V	Volt
Acr	KWH	Kilo Watt Hour
	PTW	Permit to work
	CPR	Cardio Pulmonary Resuscitation
	GIS	Geographical Information System

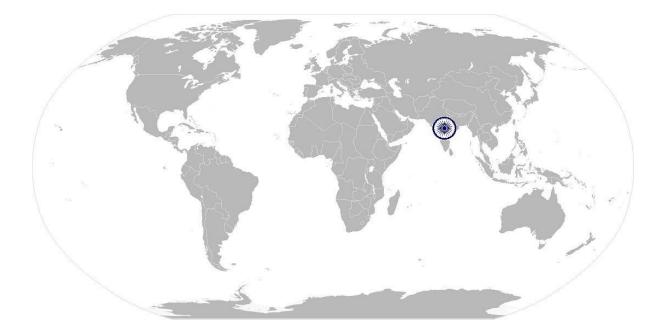






Carry out erection of transmission tower

# National Occupational Standard



# **Overview**

This unit is about the tower erection and commissioning activities performed by an Assistant tower erection power transmission







## Carry out erection of transmission tower

	Unit Code	PSS/N2006
	Unit Title (Task)	Carry out erection of transmission tower
	Description	Assistant will carry out tower erection and commissioning of transmission tower as per design drawing and instructions.
	Scope	This unit/task covers the following: • transmission tower erection
	Performance Criteria(PC	C) w.r.t. the Scope
	Element	Performance Criteria
	Transmission tower	The user/individual on the job needs to:
	erection	PC1. have knowledge of various types of towers
		PC2. have awareness of various types of transmission tower erection
		PC3. be able to read the instructions for erection as per drawing of transmission
		tower
		PC4. apply knowledge of type/component/member of tower
		PC5. arrange members of tower in order of erection requirement (sorting different
		tower parts)
		PC6. be able to climb on tower and connecting members of tower in order
		PC7. tighten nuts and know punching of threads and tack welding of nuts of
		transmission towers
		PC8. carry all the tools & equipment needed for erection or installation such as hook chook
		PC9. paint joints of transmission tower
		PC10. check the verticality of erected transmission towers
		PC11. assist with logistic and material handling
		PC12. demonstrate operational familiarity with tools and tackles
		PC13. be able to understand drawings, dimensions of members according to type of
		towers, tension balancing, torqueing etc.
		PC14. show operational familiarity with tools e.g. spanners, pulley arrangement,
		rope, 2-way, 3-way pulleys, nuts, bolts, tack welding, step bolts etc.
		PC15. apply knowledge of rust preventing agents
		PC16. apply awareness of for different geography of transmission line area
	Knowledge and Understa	anding (K)







Carry out erection of transmission tower

A. Organizational	The user/individual on the job needs to know and understand:	
Context	KA1. relevant legislation, standards, policies, and procedures followed in the	
	organization relevant to own employment and performance conditions	
	KA2. relevant health and safety requirements applicable in the work place	
	KA3. own job role and responsibilities and sources for information pertaining to	
	employment terms, entitlements, job role and responsibilities	
	KA4. reporting structure, inter-dependent functions, lines and procedures in the work area	
	KA5. how to engage with specialists for support in order to resolve incidents and	
	service requests	
	KA6. importance of working in a clean and safe environment	
	KA7. relevant people and their responsibilities within the work area	
	KA8. escalation matrix and procedures for reporting work and employment related	
	issues	
B. Technical	The individual on the job needs to know and understand:	
Knowledge	KB1. types of transmission tower based on height, transmission voltage and	
	technology	
	KB2. all tower material for erection and commission	
	KB3. tower erection process	
	KB4. tools and tackles used in tower erection	
	KB5. technical manuals, blueprints, schematics, diagrams, plans, specifications	
	estimate time, material and equipment needed to complete assignments	
	KB6. tightening of nuts and punching of threads and tack welding of nuts of transmission towers	
	KB7. process of painting of joints of transmission tower	
	KB8. process of checking the verticality of erected transmission towers	
	KB9. process of assisting in handling all machineries, equipment & vehicles for tower	
	erection	
	KB10. quality parameters, quality assessment based on physical parameters	
	KB11. importance of reporting problems in a timely manner	
Skills (S)		
A. Core Skills/	Writing Skills	
Generic Skills	The user/ individual on the job needs to know and understand how to:	
	SA1. note the information communicated by the supervisor or engineer	
	SA2. note down observations (if any) related to the process	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA3. read and interpret the process required for various types of operations	
	SA4. read, interpret and process flowchart for all operations	
	read manuals and operations documents to understand the equipment used	
	——————————————————————————————————————	







## Carry out erection of transmission tower

	into operation
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. discuss task lists, schedules and activities with the supervisor SA6. effectively communicate with the team members
B. Professional	Decision Making
Skills	The user/individual on the job needs to know and understand how to: SB1. follow organization rule-based decision making process SB2. take decision with systematic course of actions and/or response Plan and Organize
	The user/individual on the job needs to know and understand: SB3. planning and organization of tasks to meet deadlines
	Customer Centricity
	Not Applicable
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB4. seek and Comprehend operation related in the for clarification SB5. 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: SB6. apply domain information to set and define operation parameters that ensure economy and quality of the service
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB7. critically evaluate operation parameters in relation to operations intended

# NOS Version Control

NOS Code		PSS/N2006	
Credits (NSQF)	TBD	Version number	1.0
Industry	Power	Drafted on	25/01/2016
Industry Sub-sector	Transmission	Last reviewed on	19/07/2016
Occupation	Tower erection	Next review date	19/07/2018

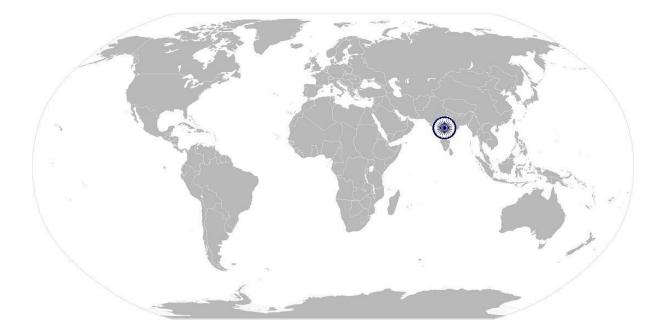






PSS/N2001 Use basic health and safety practices for power related work

# 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.







National Occupational Standards

PS	S/N2001 Use basic	health and safety practices for power related work
	Unit Code	PSS/N2001
ard	Unit Title (Task)	Use basic health and safety practices for power related work
nal Standard	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.
National Occupational	Scope	<ul> <li>This unit/task covers the following:</li> <li>health and safety</li> <li>fire safety</li> <li>emergencies, rescue and first-aid procedures</li> </ul>
al C	Performance Criteria(PC)	w.r.t. the Scope
UO	Element	Performance Criteria
Natio	Health and safety	<ul> <li>The user/individual on the job needs to:</li> <li>PC1. use protective clothing/equipment for specific tasks and work conditions.</li> <li>PC2. state the name and location of people responsible for health and safety in the workplace</li> <li>PC3. state the names and location of documents that refer to health and safety in the workplace</li> <li>PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace</li> <li>PC5. follow electrical safe working procedures such as Tag out/Lock out and display PTW (Permit To Work).</li> <li>PC6. follow warning signs (danger, out of service, etc.) while working with electrical systems</li> <li>PC7. use standard safe working practices when working at heights, confined areas and trenches</li> <li>PC8. test any electrical equipment and system using insulated testing devices before touching them</li> <li>PC9. ensure positive isolation of electrical equipment or system installed alarm annunciation and/or noticing parameters from gauge/ indicator installed</li> <li>PC11. carry out safe working practices while dealing with hazards to ensure the safety of self and others</li> <li>PC12. state methods of accident prevention in the work environment of the job role</li> <li>PC13. state location of general health and safety equipment in the workplace</li> <li>PC14. inspect for faults, set up and safely use of scaffolds and elevated platforms and ladder</li> <li>PC15. lift, carry and transport heavy objects &amp; tools safely using correct procedures from storage to workplace and vice versa</li> <li>PC15. store flammable materials and machine lubricating oil safely and correctly PC18. check that the emission and pollution control devices are working properly in</li> </ul>







	health and safety practices for power related work line with environmental policy standards
	PC19. apply good housekeeping practices at all times
	PC20. identify common hazard signs displayed in various areas
	PC21. retrieve and/or point out documents that refer to health and safety in the
	workplace
	PC22. inform relevant authorities about any abnormal situation/behavior of any
	equipment/system promptly
Fire safety	The user/individual on the job needs to:
-	PC23. use the various appropriate fire extinguishers on different types of fires
	correctly
	PC24. distinguish types of fire
	PC25. demonstrate rescue techniques applied during fire hazard
	PC26. demonstrate good housekeeping in order to prevent fire hazards
	PC27. demonstrate the correct use of a fire extinguisher
Emorgonalos, rosauo	
Emergencies, rescue and first-aid procedures	The user/individual on the job needs to: PC28. demonstrate how to free a person from electrocution
and mist-ald procedures	PC29. administer appropriate first aid to victims where required e.g. in case of
	bleeding, burns, choking, electric shock, poisoning etc.
	PC30. demonstrate basic techniques of bandaging
	PC31. respond promptly and appropriately to an accident situation or medical
	emergency in real or simulated environments
	PC32. perform and organize loss minimization or rescue activity during an accident
	in real or simulated environments
	PC33. administer first aid to victims in case of a heart attack or cardiac arrest due t
	electric shock, before the arrival of emergency services in real or simulated
	cases
	PC34. demonstrate the artificial respiration and the CPR Process
	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
	PC36. complete a written accident/incident report or dictate a report to another
	person, and send report to person responsible
	PC37. demonstrate correct method to move injured people and others during an
	emergency
Knowledge and Understa	nding (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. names (and job titles if applicable), and where to find, all the people
	responsible for health and safety in a workplace.
	KA2. names and location of documents that refer to health and safety in the
	workplace.







PSS/N2001 Use basic h	nealth and safety practices for power related work
B. Technical Knowledge	
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills         The user/ individual on the job needs to know and understand how to:         SA1.       note the information communicated by the officer incharge         SA2.       note down observations (if any) related to the operation/maintenance         Reading Skills       The user/individual on the job needs to know and understand how to:         SA3.       read and interpret the process required for different types of manuals for maintenance         SA4.       read and interpret the flowchart of all parts of an assembly.







National Occupational Standards

PSS/N2001 Use basi	c health and safety practices for power related work
	can be used
	Oral Communication (Listening and Speaking skills)
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA6. discuss task lists, schedules and activities with the colleague/supervisor</li> <li>SA7. effectively communicate with the team members.</li> <li>SA8. attentively listen and comprehend the information given by the colleague/supervisor/contractor.</li> <li>SA9. communicate clearly with the colleague on the issues faced during</li> </ul>
B. Professional	query/fault.       Decision Making
Skills	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
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SB7. work systematically and logically to resolve the issues and identify causation and anticipate unexpected results.</li> <li>SB8. quick approach and solution towards faults repairing.</li> </ul>
	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





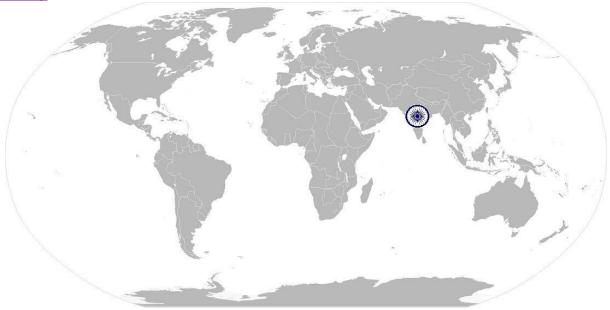


## PSS/N2001 Use basic health and safety practices for power related work

# NOS Version Control

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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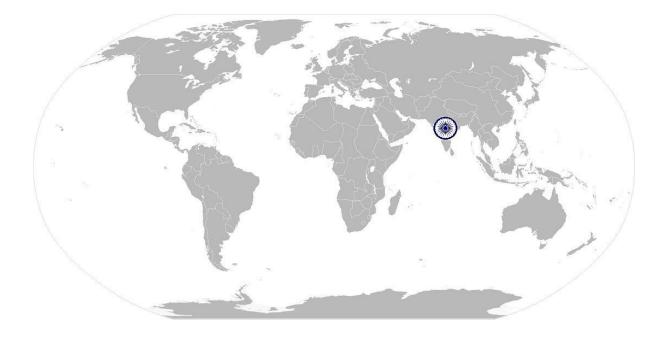


N·S·D·C National Skill Development Corporation

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







### Work effectively with others

_	Unit Code	PSS/N1336				
5	Unit Title (Task)	Work effectively with others				
	Description	This unit covers basic etiquette and competencies that a candidate is required to possess and demonstrate in their behavior and interactions with others at the workplace.				
		These cover areas such as communication etiquette, discipline, listening, handling conflict and grievances.				
	Scope	This unit/task covers the following: • working with others				
5	Performance Criteria(PC)	w.r.t. the Scope				
5	Element	Performance Criteria				
	Working with others	<ul> <li>The user/individual on the job should be able to:</li> <li>PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required</li> <li>PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt</li> <li>PC3. give information to others clearly, at a pace and in a manner that helps them to understand</li> <li>PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible</li> <li>PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks</li> <li>PC6. display appropriate communication etiquette while working .</li> <li>PC7. display active listening skills while interacting with others at work</li> <li>PC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism</li> <li>PC9. demonstrate responsible and disciplined behavior at the workplace</li> <li>PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict</li> </ul>				
	Knowledge and Understa	nding (K)				
	A. Organizational Context (Knowledge of the company / organization and its processes)	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KA1. legislation, standards, policies, and procedures followed in the organisation relevant to own employment and performance conditions</li> <li>KA2. reporting structure, inter-dependent functions, lines and procedures in the work area</li> <li>KA3. relevant people and their responsibilities within the work area</li> <li>KA4. escalation matrix and procedures for reporting work and employment related issues</li> </ul>				







Work effectively with others

B. Technical	The user/individual on the job needs to know and understand:
Knowledge	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 conduct
	KB15. importance of developing effective working relationships for professional
	success
	KB16. how to express and address grievances appropriately and effectively
	KB17. importance and ways of managing interpersonal conflict effectively
Skills (S) (Optional)	
A. Core Skills/	Writing Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	SA1. note the information communicated by the officer incharge.
	SA2. note down observations (if any) related to the operation/maintenance.
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA3. read and interpret the process required for different types of manuals
	SA4. read and interpret the flowchart of all parts of an assembly.
	SA5. read manuals and documents to understand the product-details & how they
	can be used.
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA6. discuss task lists, schedules and activities with the 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	Decision Making
Skills	The user/individual on the job needs to know and understand how to:







Work effectively with others

SB11. follow colleague/contractor rule-based decision making process.
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.

# 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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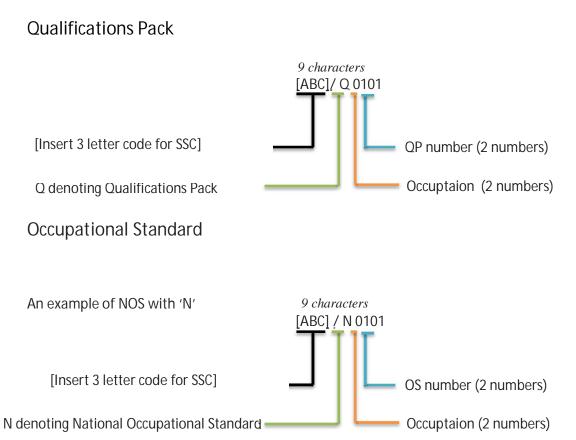
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# <u>Annexure</u>

# Nomenclature for QP and NOS







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





## CRITERIA FOR ASSESSMENT OF TRAINEES

## <u>Job Role</u> Assistant- Tower Erection Power Transmission Qualification Pack PSS/Q2003

## 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

				llocation		
Assessable outcomes		Assessment criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC1.	understand various types of towers		6	2	4
	PC2.	apply knowledge of various types of transmission tower erection (i) Build- up method or piecemeal method. (ii) Section method. (iii) Ground assembly method. (iv) Helicopter method.		6	2	4
1. PSS/N2006 Carry out erection of	PC3.	read and instruct erection as per drawing of transmission tower erection		6	1	5
transmission tower	PC4.	apply knowledge of type/component/member of tower		6	2	4
	PC5.	arrange members of tower in order of erection requirement(sorting different tower parts)		6	1	5
	PC6.	climb on tower and connecting members of tower in order		7	2	5
	PC7.	tighten nuts and punching of threads and tack Welding of nuts of		7	2	5





		Transmission Towers				
	PC8.	carry all the tools & equipment needed for erection or installation such as hook chook		4	1	3
	PC9.	paint Joints of Transmission Tower		5	1	4
	PC10.	check the Verticality of Erected Transmission Towers		5	2	3
	PC11.	assist with logistic and material handling		6	2	4
	PC12.	show operational familiarity with tools and tackles		6	2	4
	PC13.	understand drawings, dimensions of members according to type of towers, tension balancing, torqueing etc.		6	2	4
	PC14.	show operational familiarity with tools - spanners, pulley arrangement, rope, 2-way, 3-way pulleys, nuts, bolts, tack welding, step bolts etc.		6	2	4
	PC15.	apply knowledge of rust preventing agents		6	2	4
	PC16.	apply awareness geography of transmission line area		6	2	4
	PC17.	apply knowledge of PPE: e.g. safety helmet, safety glove, safety shoe, climbing harness, lanyard and tool belt (when climbing), safety rope ,ladder etc.		6	2	4
	Tota			100	30	70
2. PSS/N2001 Use basic	PC1.	use protective clothing/equipment for specific tasks and work conditions.		3	0	3
health and safety practices for power related	afety practices for s	state the name and location of people responsible for health and safety in the workplace		2	0	2
work	PC2.	state the names and location of documents that refer to health and safety in the workplace	100	2	0	2
	PC3.	identify job-site hazardous work and state possible causes of risk or accident in the workplace		3	1	2





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PC4.	follow electrical safe working procedures such as Tag out/Lock out and display PTW (Permit To Work),	3	1	2
PC5.	follow warning signs (danger, out of service, etc.) while working with electrical systems	3	1	2
PC6.	use standard safe working practices when working at heights, confined areas and trenches	3	1	2
PC7.	test any electrical equipment and system using insulated testing devices before touching them	3	1	2
PC8.	ensure positive isolation of electrical equipment & system as per given standards	3	1	2
PC9.	recognize any abnormalities in electrical equipment or system installed alarm annunciation and/or noticing parameters from gauge/ indicator installed	3	1	2
PC10.	carry out safe working practices while dealing with hazards to ensure the safety of self and others	3	1	2
PC11.	state methods of accident prevention in the work environment of the job role	2	0	2
PC12.	state location of general health and safety equipment in the workplace	2	0	2
PC13.	inspect for faults, set up and safely use of scaffolds and elevated platforms and ladder	2	0	2
PC14.	lift, carry and transport heavy objects & tools safely using correct procedures from storage to workplace and vice versa	2	1	1





	PC15.	inspect Grid station and its equipment routinely for any signs of			
		oil and water leakage	2	0	2
-	PC16.	store flammable materials and			
		machine lubricating oil safely and	2	0	2
		correctly			
-	PC17.	check that the emission and			
		pollution control devices are	3	1	2
		working properly in line with environmental policy standards	3	I	Z
		environmental policy standards			
	PC18.	apply good housekeeping practices			
		at all times	3	1	2
-	PC19.	identify common hazard signs			
		displayed in various areas	2	0	2
-	PC20.	retrieve and/or point out documents			
		that refer to health and safety in the	2	0	2
		workplace	2	0	2
-	PC21.	inform relevant authorities about			
		any abnormal situation/behavior of	3	0	3
		any equipment/system promptly	0	0	0
-	PC22.	use the various appropriate fire			
		extinguishers on different types of	2	1	1
		fires correctly	_		-
-	PC23.	distinguish types of fire	2	1	2
			3	1	2
	PC24.	demonstrate rescue techniques	2	1	0
		applied during fire hazard	3	1	2
	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			
	FGZ7.	from electrocution	3	1	2
	PC28.	administer appropriate first aid to			
		victims where required e.g. in case	3	0	3
		of bleeding, burns, choking, electric			





		shock, poisoning etc.				
	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 Emergency procedures: raising alarm, safe/efficient, evacuation, correct means of escape, correct assembly point, roll call, correct return to work		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
				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		10	3	7





	and within agreed timescale and				
	confirm its receipt give information to others clearly, at	-			
	a pace and in a manner that helps		10	3	7
	hem to understand		10	3	/
		-			
	display helpful behaviour by				
	assisting others in performing tasks		10	3	7
	n a positive manner, where				
	required and possible	_			
	consult with and assist others to				
	maximize effectiveness and		10	3	7
e	efficiency in carrying out tasks				
PC6. c	display appropriate communication				
e	etiquette while working		10	3	7
PC7. d	display active listening skills while		10	0	7
i ii	nteracting with others at work		10	3	7
PC8. u	use appropriate tone, pitch and	-			
	anguage to convey politeness,				
	assertiveness, care and		10	3	7
	professionalism				
	demonstrate responsible and	-			
	disciplined behaviours at the		10	3	7
	workplace		10	5	,
	escalate grievances and problems to				
	appropriate authority as per		10	3	7
	procedure to resolve them and				
a	avoid conflict		100		70
			100	30	70