



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GREEN JOBS

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- O&M Mechanical Technician – Wind Power Plant

SECTOR: GREEN JOBS

SUB-SECTOR: RENEWABLE ENERGY

OCCUPATION: OPERATION AND MAINTENANCE

REFERENCE ID: SGJ/Q1502

ALIGNED TO: NCO-2015/ NIL

Brief Job Description: The O&M Mechanical Technician – Wind Power Plant, carries out operation and maintenance of mechanical components of wind power plant, complying with all operational manuals, applicable codes, standards, and safety requirements

Personal Attributes: This job requires the individual to concentrate on the job at hand and complete it without any accidents so hence diligence and hardworking are desired attributes for individuals performing this role. S/he must also be medically fit to work on heights, demonstrate strong work ethics, an ability to communicate courteously with co-workers, and must be good with following instructions of the supervisor





Qualifications Pack Code		SGJ/Q1502	
Job Role	O&M Mechanical Technician-Wind Power Plant [This job role is applicable in both national and international scenarios]		
Credits(NSQF)	TBD	Version number	1.0
Sector	Green Jobs	Drafted on	01/09/2016
Sub-sector	Renewable Energy	Last reviewed on	24/11/2017
Occupation	Operation and Maintenance	Next review date	30/09/2019
NSQC Clearance on		N.A	

Job Role	O&M Mechanical Technician – Wind Power Plant
Role Description	The O&M Mechanical Technical – Wind Power Plant, carries out operation and maintenance of mechanical components of wind power plant, complying with all operational manuals, applicable codes, standards and safety requirements
NSQF level	4
Minimum Education Qualifications	Class 12 th pass, preferably
Maximum Educational Qualifications	Not applicable
Prerequisite License of Training	N/A
Minimum Job Entry Age	18 years
Experience	Not Required
Applicable National Occupational	Compulsory:
Standards (NOS)	SGJ/N1503 Carry out operation of mechanical components of wind power plant
	SGJ/N1504 <u>Carry out maintenance of mechanical</u>
	3. SGJ/N1201 Perform basic health and safety practices at project site (Ground and Height)
	4. SGJ/N0120 Work effectively with others





Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Jobrole defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the at project site, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OSs, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding	Knowledge and understanding are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual need to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish





	specific designated responsibilities.
Core Skills/ Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. In the context of the OS, these include communication related skills that are applicable to most job roles.

Keywords/Terms	Description
SCGJ	Skill Council for Green Jobs
NOS	National Occupational Standards
NSQF	National Skills Qualification Framework
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
OS	Occupational Standards
PC	Performance Criteria
QP	Qualification Pack
SSC	Sector Skills Council
WTG	Wind Turbine Generator
UTM	Universal Testing Machine
CTM	Compression Testing Machine





National Occupational Standard



Overview

This unit is about operation of mechanical components of wind power plant





	maintenance of mechanical components of wind power plant
Unit Code	SGJ /N1503
Unit Title (Task)	Carry out operation of mechanical components of wind power plant
Description	This unit is about operation of mechanical components of wind power plant
Scope	This unit/task covers the following:
	job specific safety
	primary inspection of mechanical components and inspection of M/TC components
	online testing of WTG components
Performance Criteria	
Element	Performance Criteria
Job specific safety	To be competent, the user/individual on the job must be able to:
	PC1. select the appropriate PPE (Personal Protective Equipment) to carry out the
	specific activity
Primary inspection of	To be competent, the user/individual on the job must be able to:
mechanical	PC2 identify the operation manuals of all mechanical components for inspection
components	PC3. acquire required approvals and permit to work (PTW) from the concerned
	authority
	PC4. prepare site and equipment for inspection
	PC5. carry out inspections of WTG, blade and associated mechanical components
	as per schedule
	PC6. verify and record the operative parameters for all components as per design
	standards
	PC7. monitor working efficiency of WTG and associated components
	PC8. identify the location of the conduit, cables, pipes & other undergoing devices
	prior to performing maintenance work
Online testing of WTG	To be competent, the user/individual on the job must be able to:
components	PC9. arrange for tools to carry out online testing of WTG and components
	PC10. acquire required approvals and permit to work (PTW) from the concerned
	authority
	PC11. perform visual inspection of the surroundings and the mechanical
	components and record any defects
	PC12. measure and record real time parameters of WTG and associated
	components like vibration, torqueing, temperature of bearings, grease level,
	alignment etc.
	PC13. measure and record real time parameters of wind turbine blades and
	associated components like temperature, vibration, alignment, etc.
	PC14. maintain log of all systems condition (parameters)
	PC15. prepare report and submit to site in-charge/plant head for further action
Knowledge and Unders	
A. Organizational	The user/individual on the job needs to know and understand: KA1. legislation, standards, policies, and procedures followed in the organization
Context (Knowledge of the	relevant to own employment and performance conditions
company /	KA2. reporting structure, inter-dependent functions, lines and procedures in the
organization and	work area
its processes)	KA3. relevant people and their responsibilities within the work area
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	KA4. 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. selection of appropriate PPE for specific activities
	KB2. definition of the terms: energy ,power, WTG, blades and tower
	KB3. basic concepts of wind technology and wind power generation
	KB4. basic concepts of vibration, torqueing, temperature relating to mechanical components of wind power plant
	KB5. principles and practices of safety during the process of operation and maintenance of WTG, transformer and other plant equipment
	KB6. basic functioning, specifications and operating principle of various components of a wind power plant
	KB7. the plant layout, technical drawings and manuals, blueprints, schematic
	drawing, technical specifications, operating principle and functioning of various mechanical components in wind power plant
	KB8. tools, tackles and equipment required to carry out specific activities in a wind
	power plant relating to operation and maintenance of mechanical
	components
	KB9. types of faults and troubleshooting techniques for mechanical components
	of wind power plant
	KB10. process of reporting problems in a timely manner
	KB10. process of reporting problems in a timely manner KB11. standard procedures how to deal with electric shocks and electrocutions to
Chille	KB10. process of reporting problems in a timely manner
Skills	KB10. process of reporting problems in a timely manner KB11. standard procedures how to deal with electric shocks and electrocutions to rescue and minimize damage and harm
A. Core Skills/	KB10. process of reporting problems in a timely manner KB11. standard procedures how to deal with electric shocks and electrocutions to rescue and minimize damage and harm Writing Skills
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A. Core Skills/	KB10. process of reporting problems in a timely manner KB11. standard procedures how to deal with electric shocks and electrocutions to rescue and minimize damage and harm Writing Skills The user/ individual on the job needs to know and understand how to: SA1. prepare documentation as per relevant industry standards
A. Core Skills/	KB10. process of reporting problems in a timely manner KB11. standard procedures how to deal with electric shocks and electrocutions to rescue and minimize damage and harm Writing Skills The user/ individual on the job needs to know and understand how to:

		KB7. the plant layout, technical drawings and manuals, blueprints, schematic
		drawing, technical specifications, operating principle and functioning of
		various mechanical components in wind power plant
		KB8. tools, tackles and equipment required to carry out specific activities in a wind power plant relating to operation and maintenance of mechanical components
		KB9. types of faults and troubleshooting techniques for mechanical components of wind power plant
		KB10. process of reporting problems in a timely manner
		KB11. standard procedures how to deal with electric shocks and electrocutions to
		rescue and minimize damage and harm
Ski	lls	
A.	Core Skills/	Writing Skills
	Generic Skills	The user/individual on the job needs to know and understand how to:
		SA1. prepare documentation as per relevant industry standards
		Reading Skills
		The user/individual on the job needs to know and understand how to:
		SA2. read vernacular/English language
		SA3. read and understand manuals, health and safety instructions, memos, other
		company documents
		SA4. ability to read from different sources- books, screens in machines and
		signage
		SA5. understand the various colour codes, as per standard electrical, mechanical and civil nomenclature
		Oral Communication (Listening and Speaking skills)
		The user/individual on the job needs to know and understand how to:
		SA6. express statements or information clearly so that others can hear and understand
		SA7. participate in and understand the main points of simple discussions
		SA8. respond appropriately to any queries
		SA9. communicate with supervisor
В.	Professional Skills	Decision Making
		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. plan and organize service work to meet deadlines
- SB4. plan to utilize time and equipment's effectively
- SB5. work constructively and collaboratively with others

Customer Centricity

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

- SB6. follow organisation code of conduct
- SB7. manage relationships with customers with intent on satisfying its requirements for service delivery

Problem Solving

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

- SB8. recognize problems and search for solutions
- SB9. choose best methods to complete assigned tasks
- SB10. approach relevant authority when required

Analytical Thinking

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

SB11. apply domain knowledge, observations and data to select course of action to perform tasks related to wind power plant

Critical Thinking

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

- SB12. use reasoning skills to identify and resolve basic problems
- SB13. use intuition to detect any potential problems which could arise during operations
- SB14. use acquired knowledge of the process for identifying and handling issues





NOS Version Control

NOS Code	SGJ/N1503		
Credits (NSQF)	TBD	Version number	1.0
Industry	Green Jobs	Drafted on	01/09/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	24/11/2017
Occupation	Operation and Maintenance	Next review date	30/09/2019







National Occupational Standard



Overview

This unit is about maintenance of mechanical components of wind power plant





SGJ/N1	.504 Car	ry out maintenance of mechanical components of wind power plant
Unit	Code	SGJ /N1504
Unit	Title (Task)	Carry out maintenance of mechanical components of wind power plant
Desc	ription	This unit is about maintenance of mechanical components of wind power plant
Scop	е	This unit/task covers the following:
		job specific safety
		 scheduled routine maintenance of WTG components
		 repair and replacement of WTG components
Perfo	ormance Criteria(I	PC) w.r.t. the Scope
Elem	ent	Performance Criteria
Job sp	ecific safety	To be competent, the user/individual on the job must be able to:
		PC1. select the appropriate PPE (Personal Protective Equipment) to carry out the
		specific activity
Sched	uled routine	To be competent, the user/individual on the job must be able to:
maint	enance of WTG	PC2. identify required approvals and permit to work (PTW) from the concerned
comp	onents	authority
		PC3. ensure that the system is shut down prior to carrying out work
		PC4. perform visual inspection of the mechanical components of wind power
		plant and record any defects
		PC5. carry out maintenance activities for chanical components of WTG as per
		standard operating procedures
		PC6. carry out testing of WTG and associated components on
		a. universal testing machine (UTM)
		b. compression testing machine (CTM)
		PC7. measure and record parameters post maintenance activities
		PC8. report to the supervisor in case of any deviations from standard values
Repai	r and	To be competent, the user/individual on the job must be able to:
replac	ement of WTG	PC9. identify required approvals and permit to work (PTW) from the concerned
comp	onents	authority
		PC10. arrange for tools and replacement equipment from the supervisor if required
		PC11. carry out repair or replacement of faulty mechanical components of wind
		power plant as per standard operating procedures
		PC12. conduct readiness test on post replacement of equipment
	ledge and Unders	
	rganizational	The user/individual on the job needs to know and understand:
	ontext	KA1. legislation, standards, policies, and procedures followed in the organization relevant to own employment and performance conditions
-	nowledge of the	KA2. reporting structure, inter-dependent functions, lines and procedures in the
	ompany /	work area
	ganization and	KA3. relevant people and their responsibilities within the work area
its	s processes)	KA4. escalation matrix and procedures for reporting work and employment
		related issues
	echnical	The individual on the job needs to know and understand:
Kr	nowledge	KB1. definition of the terms: energy ,power, WTG, blades and tower
		KB2. basic concepts of wind technology and wind power generation
		KB3. basic concepts of vibration, torqueing, temperature relating to mechanical components of wind power plant
		components of wind power plant





SGJ/N1504 Car	ry out maintenance of mechanical components of wind power plant
	KB4. principles and practices of safety during the process of operation and
	maintenance of WTG, transformer and other plant equipment
	KB5. basic functioning, specifications and operating principle of various
	components of a wind power plant
	KB6. the plant layout, technical drawings and manuals, blueprints, schematic
	drawing, technical specifications, operating principle and functioning of
	various mechanical components in wind power plant
	KB7. tools, tackles and equipment required to carry out specific activities in a wind
	power plant relating to operation and maintenance of mechanical components such as:
	a. Compression Testing Machine
	b. Universal Testing Machine
	KB8. the types and process of various pre and post commissioning tests to be
	conducted on replaced equipment
	KB9. types of faults and troubleshooting techniques for mechanical components
	of wind power plant
	KB10. process of reporting problems in a timely manner
	KB11. standard procedures how to deal with electric shocks and electrocutions to
	rescue and minimize damage and harm
	KB12. selection of appropriate PPE for specific activities
Skills	
A. Core Skills/	Writing Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	SA1. prepare documentation as per relevant industry standards
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA2. read vernacular/English language
	SA3. read and understand manuals, health and safety instructions, memos, other
	company documents
	SA4. ability to read from different sources- books, screens in machines and
	signage
	SA5. understand the various colour codes, as per standard electrical, mechanical
	and civil nomenclature
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA6. express statements or information clearly so that others can hear and understand
	SA7. participate in and understand the main points of simple discussions
	SA7. participate in and understand the main points of simple discussions SA8. respond appropriately to any queries
B. Professional Skills	SA7. participate in and understand the main points of simple discussions SA8. respond appropriately to any queries SA9. communicate with supervisor
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Customer Centricity

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

- SB6. follow organisation code of conduct
- SB7. manage relationships with customers with intent on satisfying its requirements for service delivery

Problem Solving

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

- SB8. recognize problems and search for solutions
- SB9. choose best methods to complete assigned tasks
- SB10. approach relevant authority when required

Analytical Thinking

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

SB11. apply domain knowledge, observations and data to select course of action to perform tasks related to wind power plant

Critical Thinking

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

- SB12. use reasoning skills to identify and resolve basic problems
- SB13. use intuition to detect any potential problems which could arise during operations
- SB14. use acquired knowledge of the process for identifying and handling issues







Carry out maintenance of mechanical components of wind power plant

NOS Version Control

NOS Code		SGJ/N1504				
Credits (NSQF)	TBD	TBD Version number 1.0				
Industry	Green Jobs	Drafted on	01/09/2016			
Industry Sub-sector	Renewable Energy	Last reviewed on	24/11/2017			
Occupation	Operation and Maintenance	Next review date	30/09/2019			

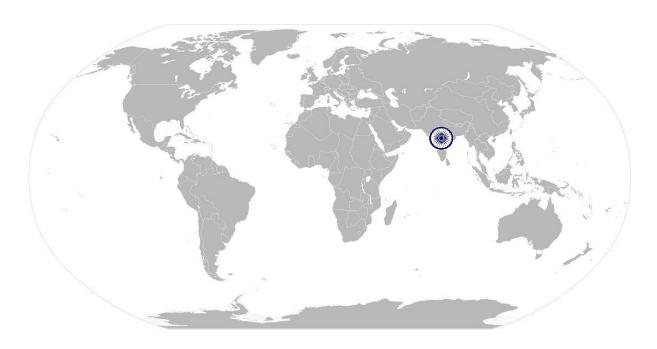


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Perform basic health and safety practices at project site (Ground and Height)

National Occupational Standard



Overview

This unit covers health and safety practices to be maintained at project site





Perform basic health and safety practices at project site (Ground and Height)

(Ground and Height)				
Unit Code	SGJ/N1201			
Unit Title (Task)	Perform basic health and safety practices at project site (Ground and Height)			
Description	This unit covers health and safety practices to be maintained at project site			
	This unit/task covers the following:			
Scope	adherence to safe working practices at project site			
	fire safety and tackling emergency situations			
Performance Criteria(PC) w.r.t. the Scope			
Element	Performance Criteria			
Adherence to safe	To be competent, the user/ individual must be able to:			
working practices at	PC1. select the relevant protective clothing/equipment for specific tasks and work			
project site	PC2. state the name and location of relevant documents and people responsible			
	for health and safety at the project site			
	PC3. identify possible causes of risk at project site and their mitigation measures			
	PC4. identify and follow warning signs on site			
	PC5. establish safe working procedures at the project site			
	PC6. ensure safe working practices when working at heights, confined areas and			
	trenches			
	PC7. identify methods of accident prevention in the work environment			
	PC8. follow safe operating procedures for lifting, carrying and transporting heavy			
	objects & tools			
	PC9. inspect the at project site on a regular basis for any signs of spillage			
	PC10. ensure safe storage of flammable materials and machine lubricating oil PC11. apply good housekeeping practices at all times by removal/disposal of waste			
	products			
	PC12. inform relevant authorities about any abnormal situation/behavior of any			
	equipment/system promptly			
Fire safety and	To be competent, the user/ individual must be able to:			
tackling emergency	PC13. exhibit the use of various appropriate fire extinguishers on different types of			
situations	fires correctly			
	PC14. demonstrate rescue techniques applied during fire hazard			
	PC15. administer appropriate first aid to victims were required e.g. in case of			
	bleeding, burns, choking, electric shock, poisoning etc.			
	PC16. respond promptly and appropriately to an accident situation or medical			
	emergency in real or simulated environments			
	PC17. participate in emergency procedures: raising alarm, safe/efficient,			
	evacuation, correct means of escape, correct assembly point, roll call, correct			
	return to work			
Vaculada and Under	PC18. report the accident to the relevant authority in the prescribed format			
Knowledge and Under				
A. Organizational	The user/individual on the job needs to know and understand:- KA1. names (and job titles if applicable), and where to find, all the people			
Context	responsible for health and safety in a at project site			
(Knowledge of	KA2. names and location of documents that refer to health and safety in the at			
the company /	project site			
organization and	KA3. escalation matrix and procedures for reporting work and employment related			
its processes)	issues			





Perform basic health and safety practices at project site (Ground and Height)

D. Tankadaal	The individual on the job needs to know and understand:		
B. Technical	•		
Knowledge	KB1. meaning of "hazards" and "risks"		
	KB2. various types of safety signs and what they mean		
	KB3. health and safety hazards commonly present in the work environment and		
	related precautions		
	KB4. possible causes of risk and accident and their mitigation measures		
	KB5. safe working practices when working with tools and machines		
	KB6. location of first-aid and safety equipment in the at project site		
	KB7. appropriate basic first aid treatment relevant to the condition e.g. shock,		
	electrical shock, bleeding, breaks to bones, minor burns, resuscitation,		
	poisoning, eye injuries		
	KB8. standard safety procedures and equipments to be used to work at heights,		
	trenches and confined places		
	KB9. importance of using PPE and its selection as per the activity		
	KB10. various causes of fires: heating of metal; spontaneous ignition; sparking;		
	electrical heating; loose fires (smoking, welding, etc.); chemical fires; etc.		
	KB11. precautionary activities taken to prevent fire accident or any other		
	emergency situation		
	KB12. different types of fire extinguishers and their usage and methods of		
	extinguishing fire using various techniques		
	KB13. emergency rescue techniques to be pplied during a fire hazard or any other		
	emergency situation		
Skills (S)			
A. Core Skills/	Reading and writing skills		
Generic Skills	The user/ individual on the job needs to know and understand:		
	SA1. proper documentation as per relevant industry standards		
	Reading skills		
	Reading skills The user/ individual on the job needs to know and understand:		
	Reading skills The user/ individual on the job needs to know and understand: SA2. vernacular/English language		
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Perform basic health and safety practices at project site (Ground and Height)

Customer	Centricity
Castonici	CCITCICITY

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

- SB6. follow organisation code of conduct
- SB7. manage relationships with customers with intent on satisfying its requirements for service delivery

Problem Solving

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

- SB8. recognize problems and provide solutions using a range of cognitive and practical skills
- SB9. approach relevant authority when required

Analytical Thinking

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

SB10. apply knowledge of facts, principles and processes to select the right course of action to perform tasks

Critical Thinking

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

- SB11. use reasoning skills to identify and resolve basic problems
- SB12. use intuition to detect any potential problems which could arise during operations
- SB13. use acquired knowledge of the process for identifying and handling issues







Perform basic health and safety practices at project site (Ground and Height)

NOS Version Control

NOS Code		SGJ/N1201				
Credits (NSQF)	TBD	TBD Version number 1.0				
Industry	Green Jobs	Green Jobs Drafted on 01/09/2016				
Industry Sub-sector	Renewable Energy	Renewable Energy Last reviewed on 24/11/2017				
Occupation	Health and Safety	Next review date	30/09/2019			

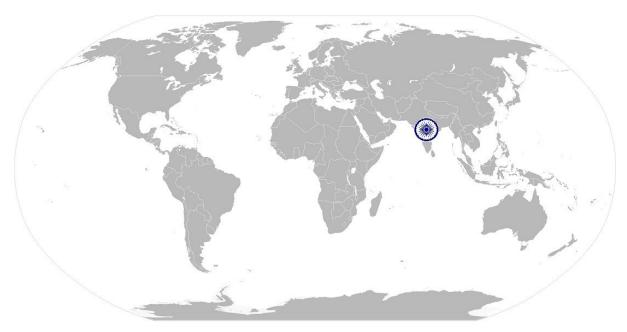








National Occupational Standard



Overview

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





Work effectively with others

Unit Code	SGJ/ N0120		
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 at project site		
Scope	This unit/task covers the following: • working with others		
Performance Criteria(PC) w.r.t. the Scope		
Element	Performance Criteria		
Working with others	The user/individual on the job should be able to: PC1. accurately pass on information to the authorized persons who require it and within agreed timescale and confirm its receipt PC2. assist others in performing tasks in a positive manner where required and possible PC3. consult and assist others to maximize effectiveness and efficiency in carrying out tasks PC4. display appropriate communication etiquette while working PC5. display active listening skills while interacting with others at work PC6. demonstrate responsible and disciplined behaviors at the at project site PC7. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict PC8. identify the need for common grounds with clients, team members, etc. and negotiate in an effective manner to achieve the same PC9. consider and respect the opinions, creativity, values, beliefs and perspectives of others PC10. ensure collaboration and group participation to achieve common goals PC11. promote a friendly, co-operative environment that is conducive to employee's sense of belonging PC12. facilitate an understanding and appreciation of the differences among team members		
Knowledge and Under	standing (K)		
A. Organizational context (Knowledge of the company / organization and its processes)	 The user/individual on the job needs to know and understand: KA1. legislation, standards, policies, and procedures followed in the organization relevant to own employment and performance conditions KA2. reporting structure, inter-dependent functions, lines and procedures in the work area KA3. relevant people and their responsibilities within the work area KA4. escalation matrix and procedures for reporting work and employment related issues 		
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. various categories of people that one is required to communicate and coordinate with in the organization KB2. importance of effective communication in the at project site KB3. importance of teamwork in organizational and individual success		





SGJ/N0120	Work effectively with others		
-	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. key elements and importance of non-verbal communication		
	KB12. importance of ethics for professional success		
	KB13. importance of discipline for professional success		
	KB14. what constitutes disciplined behavior for a working professional		
	KB15. common reasons for interpersonal conflict		
	KB16 importance of developing effective working relationships for professional		
	success		
	KB17. expressing and addressing grievances appropriately and effectively		
	KB18. importance and ways of managing interpersonal conflict effectively		
	KB19. importance of teamwork and collaboration		
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		
	SA2. record the readings of various parameters in the prescribed format		
	SA3. note down observations related to the activity		
	SA4. write information documents to internal departments/internal teams		
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA5. read vernacular/English language		
	SA6. read and understand equipment manuals, health and safety instructions,		
	memos, other company documents		
	SA7. read from different sources- books, screens in machines and signage		
	SA8. read internal information documents sent by internal teams		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA9. express statements or information clearly so that others can hear and understand		
	SA10. participate in and understand the main points of simple discussions		
	SA10. participate in and understand the main points of simple discussions SA11. respond appropriately to any queries		
	SA12. communicate effectively with supervisor, peers and subordinates		
B. Professional Skills	Decision Making		
D. TTOTESSIONAL SKIIIS	The user/individual on the job needs to know and understand how to:		
	SB1. follow organization rule-based decision making process		
	SB2. analyze critical points in day to day tasks and identify control measures to		
	solve the issue		
	SB3. handle issues in case the superior is not available (as per the authority matrix		
	defined by the organisation)		
	defined by the organisation)		





Work effectively with others

Pl	an	and	Organize

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

- SB4. planning and organization of work to meet deadlines
- SB5. work constructively and collaboratively with others
- SB6. support the superiors in scheduling tasks

Customer Centricity

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

- SB7. follow organisation code of conduct
- SB8. manage relationships with customers with intent on satisfying its requirements for service delivery

Problem Solving

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

- SB9. recognize problems and search for solutions
- SB10. choose best methods to complete assigned tasks
- SB11. approach relevant authority when required

Analytical Thinking

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

SB12. apply domain knowledge, observations and data to select course of action to perform tasks

Critical Thinking

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

SB13. critically evaluate information obtained from customers, supervisor and coworkers to perform day to day activities

SB14. ask questions for better understanding







National Skill Development Corporation

Work effectively with others

NOS Version Control

NOS Code		SGJ/N0120					
Credits (NSQF)	TBD	TBD Version number 1.0					
Industry	Green Jobs	Green Jobs Drafted on 01/09/2016					
Industry Sub-sector	Renewable Energy	Renewable Energy Last reviewed on 15/02/2017					
Occupation	Team management						



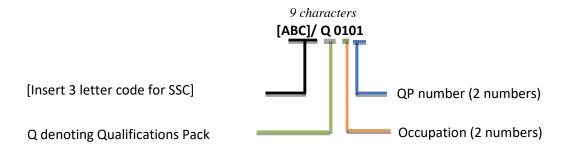




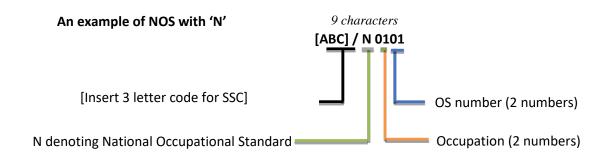
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard







SGJ/Q1502

Qualifications Pack For "O&M Mechanical Technician- Wind Power Plant"

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

	Sub-sector	Range of Occupation numbers
Renewable Energy	Solar Photovoltaic	01-05
(01-35)	Solar Thermal	06-10
(01 00)	Wind	11-15
	Hydro	16-20
	Biomass	21-25
	Geothermal	26-30
	All Renewables (Cross-cutting/ Enabling Activities)	31-35
Green	Alternative Fuel Transportation	36-40
Transportation	Bio-fuels and Farming	40-45
(36 - 40)	Other Green Transportation	46-50
Green	Green Buildings	51-55
Construction (51- 60)	Energy Efficiency	56-60
Waste Management (61- 65)	Waste Management	61-65
Water Management (66-70)	Water and Wastewater Management	66-70
Co- Generation (71 - 75)	Co-generation	71-75
Other Green	Carbon Sinks	76-80
Jobs (76- 99)	Environmental Compliance and Sustainability Planning	81-85
	Other Green Jobs	85-99

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





SGJ/Q1502

Qualifications Pack For "O&M Mechanical Technician- Wind Power Plant"

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role O&M Mechanical Technician- Wind Power Plant

Qualification Pack SGJ/Q1502

Sector Skill Council Skill Council for Green Jobs

Guidelines for Assessment

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
- 3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
- 4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
- 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
- 6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
- 7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Total Marks: 400		Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
SGJ /N1503 Carry out operation of mechanical components of wind	PC1. select the appropriate PPE to carry out the specific activity		4	1	3
PC2. PC3. PC4. PC5. PC6.	PC2. identify the operation manuals of all mechanical components for inspection		7	1	6
	PC3. acquire required approvals and permit to work (PTW) from the concerned authority – (element II)		10	2	8
	PC4. prepare site and equipment for inspection		7	1	6
		100	8	2	6
	PC6. verify and record the operative parameters for all components as per design standards		8	2	6
	PC7. monitor working efficiency of WTG and associated components		7	1	6
	PC8. identify the location of the conduit, cables, pipes &		8	2	6





SGJ/Q1502 Qualificat	tions Pack For "O&M Mechanical T	echnician- Wind Po	wer Plant	<i>"</i>	
	other undergoing devices				
	prior to performing				
	maintenance work				
	PC9. arrange for tools to carry				
	out online testing of WTG		7	1	6
	and components				
	PC10. acquire required approvals				
	and permit to work (PTW)				
	from the concerned		5	1	4
	authority – (element III)				
	PC11. perform visual inspection				
	of the surroundings and				
	the mechanical		8	2	6
	components and record		0		O
	any defects				
	PC12. measure and record real				
	time parameters of WTG				
	and associated		_	_	_
	components like vibration,		6	2	4
	torqueing, temperature of				
	bearings, grease level,				
	alignment etc.				
	PC13. measure and record real				
	time parameters of wind				
	turbine blades and		7	3	4
	associated components		,		4
	like temperature,				
	vibration, alignment, etc.				
	PC14. maintain log of all systems		4	2	2
	condition (parameters)		4	2	2
	PC15. prepare report and submit				
	to site in-charge/plant		4	1	3
	head for further action				
		TOTAL	100	24	76
SGJ /N1504 Carry out	PC1. select the appropriate PPE		-		
maintenance of	to carry out the specific		4	1	3
mechanical components	activity		•	_	
of wind power plant	PC2. identify required approvals	†			
porter plants	and permit to work (PTW)				
	from the concerned		5	3	2
	authority – (element II)				
	PC3. ensure that the system is	-			
	shut down prior to carrying		8	5	3
			0	ر	3
	out work			•	
	out work	100			
	PC4. perform visual inspection	100			
	PC4. perform visual inspection of the mechanical	100	12		7
	PC4. perform visual inspection of the mechanical components of wind power	100	12	5	7
	PC4. perform visual inspection of the mechanical components of wind power plant and record any	100	12	5	7
	PC4. perform visual inspection of the mechanical components of wind power plant and record any defects	100	12	5	7
	PC4. perform visual inspection of the mechanical components of wind power plant and record any defects PC5. carry out maintenance	100	12	5	7
	PC4. perform visual inspection of the mechanical components of wind power plant and record any defects PC5. carry out maintenance activities for mechanical	100			
	PC4. perform visual inspection of the mechanical components of wind power plant and record any defects PC5. carry out maintenance activities for mechanical components of WTG as per	100	12	5	7
	PC4. perform visual inspection of the mechanical components of wind power plant and record any defects PC5. carry out maintenance activities for mechanical	100			





SGJ/Q1502 Qualification	tions Pa	ck For "O&M Mechanical Te	echnician- Wind Po	wer Plant	"	
	PC6.	carry out testing of WTG				
		and associated				
		components on				
		a. universal testing		12	5	7
		machine (UTM)				
		b. compression testing				
		machine (CTM)				
	PC7.	measure and record				
		parameters post		12	5	7
		maintenance activities				
	PC8.	report to the supervisor in				
		case of any deviations from		5	2	3
		standard values				
	PC9.	, , , , , , , , , , , , , , , , , , , ,				
		and permit to work from		6	3	3
		the concerned authority –			•	
		(element III)				
	PC10	arrange for tools and				
		replacement equipment		7	3	4
		from the supervisor if		,		
		required				
	PC11	carry out repair or				
		replacement of faulty				
		mechanical components of		7	3	4
		wind power plant as per				
		standard operating				
		procedures				
	PC12	conduct readiness test on				
		post replacement of		10	4	6
		equipment				
			TOTAL	100	44	56
SGJ/N1201 Perform basic	PC1.	select the relevant				
health and safety		protective		6	4	2
practices at wind project		clothing/equipment for		U	_	2
site (Ground and Height)		specific tasks and work				
	PC2.	state the name and				
		location of relevant				
		documents and people		6	4	2
		responsible for health and				
		safety in the at project site				
	PC3.	identify possible causes of		_		
		risk at at project site and	100	6	2	4
		their mitigation measures				
	PC4.	identify and follow warning		3	2	1
		signs on site			_	
	PC5.	establish safe working				
		procedures at the at		6	2	4
		project site				
	PC6.	ensure safe working				
		practices when working at		6	2	4
		heights, confined areas and		-	_	
		trenches				





SGJ/Q1502 Qualifica	tions Pac	ck For "O&M Mechanical Te	chnician- Wind Po	wer Plant	"	
	PC7.	identify methods of accident prevention in the		6	2	4
		work environment				
	PC8.	follow safe operating				
		procedures for lifting,		6	2	4
		carrying and transporting			_	-
		heavy objects & tools				
	PC9.	inspect the at project site				
		on a regular basis for any		6	2	4
		signs of spillage				
	PC10.	ensure safe storage of				
		flammable materials and		6	4	2
		machine lubricating oil				
	PC11.	apply good housekeeping				
		practices at all times by		6	2	4
		removal/disposal of waste		O	2	4
		products				
	PC12.	inform relevant authorities				
		about any abnormal				
		situation/behavior of any		6	2	4
		equipment/system				
		promptly				
	PC13.	exhibit the use of various				
		appropriate fire		6	4	,
		extinguishers on different		6	4	2
		types of fires correctly				
	PC14.	demonstrate rescue				
		techniques applied during		6	3	3
		fire hazard				
	PC15.	administer appropriate				
		first aid to victims were				
		required e.g. in case of				2
		bleeding, burns, choking,		6	4	2
		electric shock, poisoning				
		etc.				
	PC16.	respond promptly and				
		appropriately to an				
		accident situation or		6	2	4
		medical emergency in real				
		or simulated environments				
	PC17.	participate in emergency				
		procedures: raising alarm,				
		safe/efficient, evacuation,		_	_	
		correct means of escape,		3	1	2
		correct assembly point, roll				
		call, correct return to work				
	PC18.	report the accident to the				
		relevant authority in the		4	2	2
		prescribed format				
			TOTAL	100	46	54
SGJ/N0120 Work	PC1.	accurately pass on				
effectively with others	1 61.	information to the				
Checuvery with Others		authorized persons who	100	10	2	8
		require it and within				
	1	require it and within		<u> </u>	<u> </u>	





SGJ/Q1502	Qualifications Pa	ck For "U&IVI Mechanical Te	echnician- vvina Po	wer Plant		1
		agreed timescale and				
		confirm its receipt				
	PC2.	assist others in performing				
		tasks in a positive manner		6	1	5
		where required and			_	J
		possible				
	PC3.	consult and assist others				
		to maximize effectiveness		8	2	6
		and efficiency in carrying		٥	2	6
		out tasks				
	PC4.	display appropriate				
		communication etiquette		9	2	7
		while working				
	PC5.	display active listening				
		skills while interacting		8	2	6
		with others at work				
	PC6.	demonstrate responsible				
	1 331	and disciplined behaviors		8	2	6
		at the at project site			_	
	PC7.	escalate grievances and				
	107.	problems to appropriate				
		authority as per procedure		9	2	7
		to resolve them and avoid				,
		conflict				
	PC8.	identify the need for				
	F Co.	common grounds with				
		clients, team members,				
				9	2	7
		etc. and negotiate in an effective manner to				
	DCO	achieve the same				
	PC9.	consider and respect the				
		opinions, creativity,		9	2	7
		values, beliefs and				
	2000	perspectives of others				
	PC10.	ensure collaboration and			_	
		group participation to		8	2	6
		achieve common goals				
	PC11.	promote a friendly, co-				
		operative environment				
		that is conducive to		8	2	6
		employee's sense of				
		belonging				
	PC12.	facilitate an understanding				
		and appreciation of the		8	2	6
		differences among team		٥	_	0
		members				
			TOTAL	100	23	77
L			i			