



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

Contact Us:

Skill Council for Green Jobs, CBIP Building, Malcha

Marg, Chanakyapuri New Delhi – 110021 Ph. 011- 41792866

E-mail: info@sscgj.in



Contents

1.	Introduction and Contacts	.P1
2.	Qualifications Pack	.P2
3.	Glossary of Key Terms	.P3
4.	OS Units	.P4
5.	Annexure: Nomenclature for QP & OS	.P16
5.	Assessment Criteria	.P18

Introduction Wastewater Treatment Plant Helper

SECTOR: GREEN JOBS

SUB-SECTOR: Water Management

OCCUPATION: Operation & Maintenance

REFERENCE ID: SGJ/Q6602

ALIGNED TO: NCO-2004/ NIL

Wastewater Treatment Plant Helper assists in Operation and Maintenance of Industrial and Housing Societies Wastewater Treatment Plant.

Brief Job Description: Wastewater Treatment Plant Helper assists in Operation and Maintenance of Industrial and Housing Societies Wastewater Treatment Plant.

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



Qualifications Pack For "Wastewater Treatment Plant Helper"





Qualifications Pack Code SGJ/Q6602 Wastewater Treatment Plant Helper Job Role This job role is applicable in both national and international scenarios Credits(NSQF) TBD **Version number** 1.0 Sector **Green Jobs Drafted on** 26/11/2015 Sub-sector Water Management Last reviewed on 10/12/2015 Occupation **Operation & Maintenance** Next review date 01/12/2020 19/12/2018 **NSQC Clearance on**

Job Role	Wastewater Treatment Plant Helper	
Role Description	Wastewater Treatment Plant Helper assists in Operation and Maintenance of Industrial and Housing Societies Wastewater Treatment Plant.	
NSQF level	3	
Minimum Educational Qualifications	8 th Pass	
Maximum Educational Qualifications	Not Applicable.	
Training	N/A	
(Suggested but not mandatory)		
Minimum Job Entry Age	18 years.	
Experience	Not Required.	
Applicable National Occupational Standards (NOS)	Compulsory: SGJ/N6604: Maintain the Wastewater Treatment Plant. SGJ/N6603: Assist the Supervisor in Wastewater Treatment Plant SGJ/N6605: Work Safety at Wastewater treatment plant. Optional: Not Applicable.	
Performance Criteria	As described in the relevant OS units.	



Qualifications Pack For "Wastewater Treatment Plant Helper"





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.		
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.		
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization		
OS	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, 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.		
NOS NOS are Occupational Standards which apply uniquely in the Indian context.			
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack		
Qualifications Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.		
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.		
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to conform to the required standard.		
Organizational Context	Organizational Context includes the way the organization is structured And how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.		
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.		
Core Skills or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.		





SGJ/ N 6604

Maintain the Wastewater Treatment Plant

National Occupational Standard

Overview

This unit is about monitoring of the Wastewater Treatment Plant.



यमेव जवते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



SGJ/ N 6604	Maintain the Wastewater Treatment Plant	
Unit Code	SGJ / N6604	
Unit Title (Task)	Maintain the Wastewater Treatment Plant	
Description This unit is about monitoring and maintaining the Wastewater Treatment Scope This unit/task covers the following: • Maintain the working of Wastewater Treatment Plant		
Performance Criteria(P	C) w.r.t. the Scope	
Element	Performance Criteria	
Maintain the working of Wastewater Treatment Plant	 To be competent, the user/ individual must be able to: PC1. Measure and record all meter and gauge readings PC2. Perform maintenance on filters and valves. PC3. Perform Cleaning of Tanks. PC4. Perform the Cleaning of work area and equipment. PC5. Visually inspect the discharge at delivery point periodically for any anomalies. 	
Knowledge and Unders	tanding (K)	
 A. Organizational Context (Knowledge of the company /organization and its processes) B. Technical Knowledge 	 The user/individual on the job needs to know and understand: KA1. Company's Policy on quality and standards, design norms, safety hazards, integrity, codes, compliance and guidelines. KA2. The Purpose and Scope of the work to be carried out and its importance. KA3. Maintenance of a wastewater treatment plant. KA4. Company's reporting structure. KA5. Company's different department and concerned authority. The individual on the job needs to know and understand the following aspects: KB1. Classification of different types of filters, valves & tanks and how they are cleaned or replaced. 	
Skill	 KB2. Safety compliances while handling chemicals and organic matter. KB3. Maintenance schedule of different parts of a Wastewater Treatment Plant KB4. Importance of scheduled maintenance 	
A. Core Skills/ Writing Skills		
Generic Skills	 The user/ individual on the job needs to know and understand how to: SA1. Fill up documentation applicable to one's role. Reading Skills The user/individual on the job needs to know and understand how to: SA2. Read English and/or vernacular 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 color codes, as per standard electrical, mechanical 	



TRITING OF AND A CONTRACT OF AND A CONTRACT OF A CONTRACT OF A CONTRACT A ENTREPRENEURSHIP



SGJ/ N 6604	Maintain the Wastewater Treatment Plant		
	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.		
B. 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 how to :		
	SB3. Planning and organization of work to meet deadlines.		
	SB4. Work constructively and collaboratively with others.		
	Customer Centricity		
	The user/individual on the job needs to know and understand how to: N.A		
	Problem Solving		
	The user/individual on the job needs to know and understand how to: SB5. Recognize problems and search for solutions. SB6. Choose best methods to complete assigned tasks.		
	Analytical Thinking		
	The user/individual on the job needs to know and understand how to: SB8. Apply domain knowledge, observations and data to select course of action to perform tasks related to Wastewater Treatment. Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB9. Critically evaluate information obtained from customers, supervisor and co-		
	workers to perform day to day activities.		
	SB10. Ask questions for better understanding.		



REATE OF THE AREA OF THE AREA

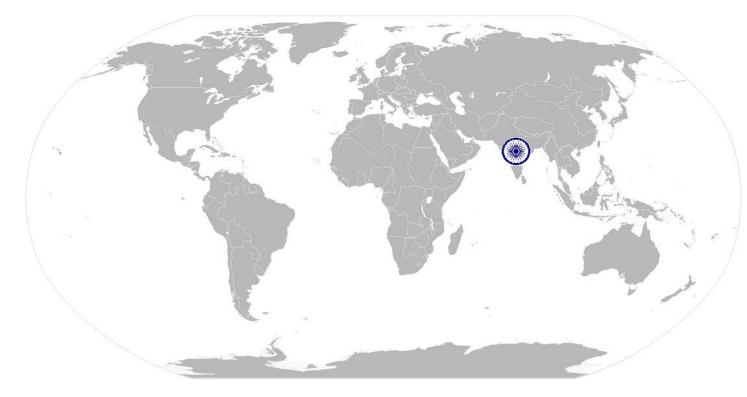


SGJ/ N 6604

Maintain the Wastewater Treatment Plant

NOS Version Control

NOS Code	SGJ/N6604		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	26/11/2015
Industry Sub-sector	Water Management	Last reviewed on	10/12/2015
Occupation	Operation and Maintenance	Next review date	01/12/2020



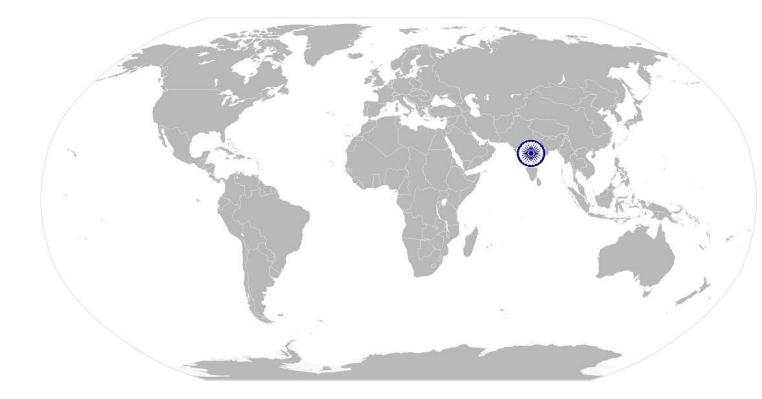






Assist the Supervisor in Wastewater Treatment Plant

National Occupational Standard



Overview

This unit is about Assisting Supervisor in the Wastewater Treatment Plant.



RECEIVE OF CONTRACT OF INDIA GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



SGJ/ N 6603	Assist the Supervisor in Wastewater Treatment Plant		
Unit Code	SGJ / N6603		
Unit Title (Task)	Assist the Supervisor in Wastewater Treatment Plant		
Description This unit is about assisting supervisor in Wastewater Treatment Plant			
Scope	This unit/task covers the following:		
	Assist supervisor in Wastewater Treatment Plant.		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Assist supervisor in	To be competent, the user/ individual must be able to:		
Wastewater	PC1. Assist in cleaning of different screens.		
Treatment Plant.	PC2. Assist in operating different valves.		
	PC3. Operate oil skimmer and fill drums as required		
	PC4. Perform the addition of chemicals and microbes to treat water as required		
	under the supervision of a senior. PC5. Assist in completing the documentation as required.		
Knowledge and Unders			
A. Organizational Context	The user/individual on the job needs to know and understand:		
(Knowledge of the	KA1. Company's reporting structure. KA2. Company's different department and concerned authority.		
company	KA2. Company's unletent department and concerned authority. KA3. Obtain authorization from specified supervisor.		
/organization and	KA4. Companies policies and process.		
its processes)	KA4. Companies policies and process.		
B. Technical	The individual on the job needs to know and understand the following aspects:		
Knowledge			
	KB2. Classification of different types of filters, screens, valves, pumps and h		
	they are cleaned or replaced.		
	KB3. Safety compliances while handling chemicals and organic matter.		
Skill			
A. Core Skills/	Writing Skills		
Generic Skills	The user/individual on the job needs to know and understand how to:		
	SA10. Maintaining Records of the readings of different instrument. Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA11. Read English and/or vernacular language.		
	SA12. Read and understand manuals, health and safety instructions, memos, other		
	company documents.		
SA13. Ability to read from different sources- books screens in machines and			
	SA14. Understand the various color 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:			
SA15. Express statements or information clearly so that others can hear a			
	understand.		
	SA16. Participate in and understand the main points of simple discussions.		
	SA17. Respond appropriately to any queries.		
	SA18. Communicate with supervisor.		







& ENTREPRENEURSHIP			
J/ N 6603 Assist the Supervisor in Wastewater Treatment Plant			
s Decision Making			
The user/individual on the job needs to know and understand how to: SB11. Follow organization rule-based decision making process. SB12. Take decision with systematic course of actions and/or response.			
Plan and Organize			
The user/individual on the job needs to know and understand how to : SB13. Planning and organization of work to meet deadlines. SB14. Work constructively and collaboratively with others.			
Customer Centricity			
N/A			
Problem Solving			
The user/individual on the job needs to know and understand how to: SB15. Recognize problems and search for solutions. SB16. Choose best methods to complete assigned tasks.			
Analytical Thinking			
The user/individual on the job needs to know and understand how to: SB18. Apply domain knowledge, observations and data to select course of action to perform tasks related to wastewater treatment. Critical Thinking			
 The user/individual on the job needs to know and understand how to: SB19. Critically evaluate information obtained from customers, supervisor and coworkers to perform day to day activities. SB20. Ask questions for better understanding. 			

Back to NOS List:





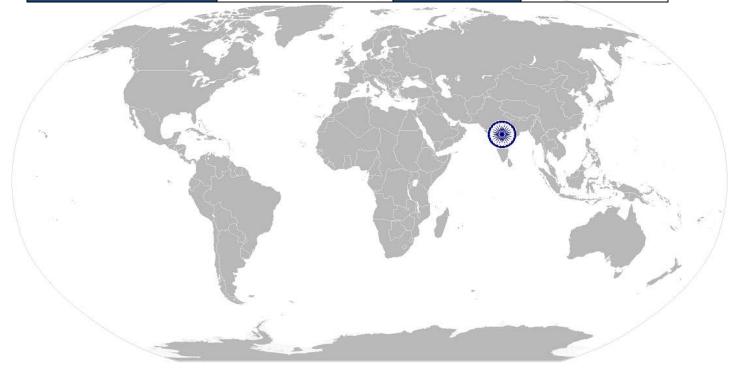


SGJ/ N 6603

Assist the Supervisor in Wastewater Treatment Plant

NOS Version Control

NOS Code	SGJ/N6603		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	26/11/2015
Industry Sub-sector	Water Management	Last reviewed on	10/12/2015
Occupation	Operation and Maintenance	Next review date	01/12/2020



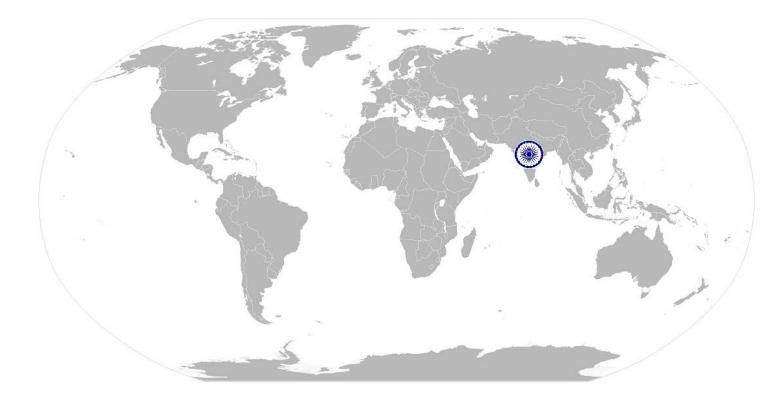


VENDRA OF OR OR GOVERNMENT OF INDIA INISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



Work Safety at Wastewater treatment plant

National Occupational Standard



Overview

This unit is about maintaining work safety at Wastewater Treatment Plant.







SGJ/ N 6605

Work Safety at Wastewater treatment plant

	Unit Code	SGJ / N6605		
	Unit Title (Task)	Work Safety at Wastewater treatment plant		
	Description	This unit is about maintaining work safety at Wastewater Treatment Plant.		
	Scope	This unit/task covers the following:		
		Work Safety at Wastewater treatment plant		
	Performance Criteria(P	C) w.r.t. the Scope		
	Element	Performance Criteria		
	Work safety at Wastewater treatment plant	To be competent, the user/individual must be able to: PC1. Identify the hazards associated with different tasks in a Wastewater Treatment Plant PC2. Inform the concerned person of the accident and hazard occurred		
		 PC2. Inform the concerned person of the accident and hazard occurred PC3. Select the right Personal Protective equipment for different tasks in a Waste Treatment Plant PC4. Perform the changing of chlorine cylinders safely PC5. Ensure safe storage of corrosive substances PC6. Ensure Health & Safety by following company policies & processes and 		
		industry standards for work safety		
1	Knowledge and Unders	tanding (K)		
	A. Organizational Context (Knowledge of the company /organization and its processes)	 The user/individual on the job needs to know and understand: KA1. Company's Policy on quality and standards, design norms, safety hazards, integrity, codes, compliance and guidelines. KA2. The Purpose and Scope of the work to be carried out and its importance. KA3. The Operations of a wastewater treatment plant. KA4. Company's reporting structure. KA5. Company's different department and concerned authority. 		
	B. Technical Knowledge	 The individual on the job needs to know and understand the following aspects: KB5. Safety compliances while handling chemicals and organic matter. KB6. Different hazards associated with the operation of the Waste Treatment Plant KB7. Do's and Don'ts in operation of Waste Treatment Plant KB8. Understand the importance and know-how of Personal Protective Equipment KB9. Know-how on the procedure for safe handling of corrosive substances, chemicals, chlorine and chlorine equipment's KB10. Know-how and understanding of safe storage of corrosive substances KB11. Know-how of how to detect chlorine leakage and control 		
Skill				
A. Core Skills/ Generic SkillsWriting SkillsThe user/ individual on the job needs to know and		Writing Skills The user/ individual on the job needs to know and understand how to: SA19. Fill up documentation applicable to one's role.		
		Reading Skills		
		The user/individual on the job needs to know and understand how to: SA20. Read English and/or vernacular language. SA21. Read and understand manuals, health and safety instructions, memos, other company documents.		
		 SA22. Ability to read from different sources- books screens in machines and signage. SA23. Understand the various color codes, as per standard electrical, mechanical and civil nomenclature. 		







A ENTREPRENEURSHIP		
SGJ/ N 6605	Work Safety at Wastewater treatment plant	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA24. Express statements or information clearly so that others can hear and understand.	
	SA25. Participate in and understand the main points of simple discussions.	
	SA26. Respond appropriately to any queries.	
	SA27. Communicate with supervisor.	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	SB21. Follow organization rule-based decision making process.	
	SB22. Take decision with systematic course of actions and/or response.	
	Plan and Organize	
	The user/individual on the job needs to know and understand how to :	
	SB23. Planning and organization of work to meet deadlines.	
	SB24. Work constructively and collaboratively with others.	
	Customer Centricity	
	The user/individual on the job needs to know and understand how to: N.A	
	Problem Solving	
	The user/individual on the job needs to know and understand how to: SB25. Recognize problems and search for solutions. SB26. Choose best methods to complete assigned tasks.	
	Analytical Thinking	
	The user/individual on the job needs to know and understand how to: SB28. Apply domain knowledge, observations and data to select course of action to perform tasks related to Wastewater Treatment. Critical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB29. Critically evaluate information obtained from customers, supervisor and co-	
	workers to perform day to day activities.	
	SB30. Ask questions for better understanding.	



GOVERNMENT OF INDU A ENTREPRENEURSHIP

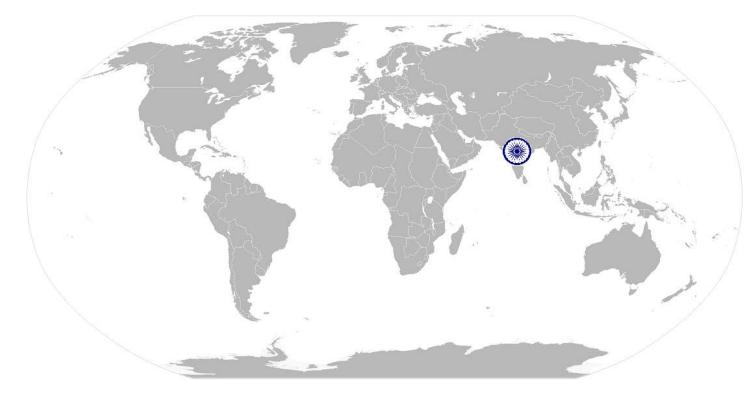


SGJ/ N 6605

Work Safety at Wastewater treatment plant

NOS Version Control

NOS Code	SGJ/N6605		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	26/11/2015
Industry Sub-sector	Waste Management	Last reviewed on	10/12/2015
Occupation	Health and Safety	Next review date	01/12/2020





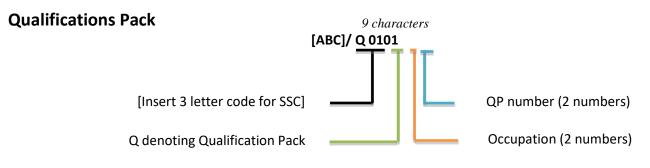




Qualifications Pack For Master "Wastewater Treatment Plant Technician"

Annexure

Nomenclature for QP and NOS



Occupational Standard

An example of NOS with 'N' 9 characters
[ABC] / N 0101
[Insert 3 letter code for SSC]
N denoting National Occupation Standard
Occupation (2 numbers)

Back to top...







Qualifications Pack For "Wastewater Treatment Plant Technician"

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

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



TRIGATE GERAT GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



Qualifications Pack For "Wastewater Treatment Plant Technician"

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Wastewater Treatment Plant Helper

Qualification Pack SGJ/Q6602

Sector Skill Council 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

The assessment for the theory part will be based on knowledge bank of questions created by the SSC
 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

		Marks Allocation			
NOS	Performance Criteria	Total	Out of	Theory	Practical
SGJ/N6604 Maintain the Wastewater Treatment Plant	PC1. Measure and record all meter and gauge readings		6	3	3
	PC2. Perform maintenance on filters & valves.		6	2	4
	PC3. Perform Cleaning of Tanks		6	2	4
	PC4. Perform Cleaning of Work area and equipment.		6	3	3
	PC5. Visually inspect the discharge periodically at delivery point for any anomalies		6	2	4
		Total	30	12	18
SGJ/N6603 Assist	PC1. Assist cleaning of different screens.		6	3	3
Supervisor in Wastewater Treatment	PC2. Assist in operating different valves.		6	3	3
Plant.	PC3. Operate oil skimmer and fil drums as required.	20	3	1	2
	PC4. Perform the addition of chemicals and microbes to treat water as required under the supervision of a senior.		2	1	1
	PC5. Assist in completing the documentation as required.		3	1	2
		Total	20	9	11







Qualifications Pack For Mastewater Treatment Plant Technician"

SGJ/N6605 Work Safety at Wastewater treatment plant	PC1. Identify the hazards associated with different tasks in a Wastewater Treatment Plant	50	12	5	7
	PC2. Inform the concerned person of the accident and hazard occurred		5	2	3
	PC3. Select the right Personal Protective equipment for different tasks in a Waste Treatment Plant		12	5	7
	PC4. Perform the changing of chlorine cylinders safely		8	3	5
	PC5. Ensure safe storage of corrosive substances		8	3	5
	PC6. Ensure Health & Safety by following company policies & processes and industry standards for work safety		5	2	3
		TOTAL	50	20	30

Back to top...