

# Model Curriculum

## Faecal Sludge Treatment Plant O&M Technician

**SECTOR: GREEN JOBS**  
**SUB-SECTOR: WASTE MANAGEMENT**  
**OCCUPATION: OPERATION & MAINTENANCE**  
**REF ID: SGJ/Q6404, V 1.0**  
**NSQF LEVEL: 4**

  

# Certificate

**CURRICULUM COMPLIANCE TO  
QUALIFICATION PACK – NATIONAL OCCUPATIONAL  
STANDARDS**

is hereby issued by the  
**SKILL COUNCIL FOR GREEN JOBS**

for the  
**MODEL CURRICULUM**

Complying to National Occupational Standards of  
Job Role/ Qualification Pack: **'Faecal Sludge Treatment Plant O&M Technician'** OP No. **'SGJ/Q6404 NSQF Level 4'**

Date of Issuance: **November 30<sup>th</sup>, 2018**

Valid up to: **November 29<sup>th</sup>, 2020**

*\* Valid up to the next review date of the Qualification Pack*

  
Authorised Signatory  
(Skill Council for Green Jobs)

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# Faecal Sludge Treatment Plant O&M Technician

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Faecal Sludge Treatment Plant O&M Technician” in the “Green Jobs” Sector/Industry and aims at building the following key competencies amongst the learner

<b>Program Name</b>	<b>Faecal Sludge Treatment Plant O&amp;M Technician</b>		
<b>Qualification Pack Name &amp; Reference ID</b>	SGJ/Q6404, V 1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	30.11.2018
<b>Pre-requisites to Training</b>	ITI or equivalent		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• Identify various components of Faecal Sludge Treatment Plant(FSTP)</li> <li>• Identify Repair and Maintenance tools and equipment</li> <li>• Identify Personal Protective Equipment</li> <li>• Perform day to day operation of Faecal Sludge Treatment Plant(FSTP)</li> <li>• Carryout routine maintenance of pumps, engines, motors, filters, bar screens, valves, pipes and any equipment's at the FSTP</li> <li>• Work effectively with co-workers</li> <li>• Maintain personal health and safety while operating FSTP</li> </ul>		











## CRITERIA FOR ASSESSMENT OF TRAINEES

**Job Role** Faecal Sludge Treatment Plant O&M Technician

**Qualification Pack** SGJ/Q 6404

**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.
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

Compulsory NOS		Marks Allocation			
<b>Total Marks: 160</b>					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
SGJ/N6415: Carry out operation of FSTP	PC1. collect and deliver sludge samples from sludge vacuum tank to laboratory for verification of system performance	<b>44</b>	5	2	3
	PC2. carry out the visual inspection of equipment at FSTP and document the status		5	2	3
	PC3. carry out the operation of septage receiving station, screening and grit removal, solid and liquid separation unit		7	3	4
	PC4. operate the pumps, blowers, generators, compressors, and other such machinery/equipment required in operation of FSTP		4	2	2
	PC5. facilitate the calibration of process control and instrumentation systems		5	2	3
	PC6. monitor the working of FSTP and fill out daily activity log sheet for reporting any failures		5	2	3
	PC7. prepare relevant reports, summarize the records and provide recommendations for optimizing the FSTP system		5	2	3

	PC8. facilitate and support co-workers in site environmental investigations, field surveys		5	2	3
	PC9. ensure the cleanliness of work area and equipment		3	1	2
		<b>TOTAL</b>	<b>44</b>	<b>18</b>	<b>26</b>
SGJ/N6416: Carry out routine maintenance of FSTP	PC1. visually inspect the equipment at the FSTP for any damage	<b>41</b>	6	2	4
	PC2. carry out the replacement of worn parts and perform emergency services		6	2	4
	PC3. monitor facilities and equipment in order to identify and repair leaks or other malfunctions		6	2	4
	PC4. perform routine maintenance activities including greasing of moving parts, changing oil etc.		6	2	4
	PC5. perform the maintenance of motors, bearings, flanges, seals and any other equipment of FSTP		6	2	4
	PC6. perform cleaning of work area and equipment		4	1	3
	PC7. prepare the routine maintenance records of the main activities, malfunctions and recommendations as required		6	2	4
		<b>TOTAL</b>	<b>41</b>	<b>13</b>	<b>28</b>
SGJ/N6410: Maintain personal health & safety in FSSM	PC1. display sign boards/caution such as “Work in progress” or “Danger” to avoid accidents related to use of sharp tools and equipment	<b>40</b>	6	2	4
	PC2. Identify contact person when workplace safety policies are violated		5	2	3
	PC3. provide information about incident/violation		4	2	2
	PC4. identify the location of first aid materials and administer first-aid		3	1	2
	PC5. identify personal safety hazards or work site hazards		3	1	2
	PC6. identify the personal protection equipment required for specific work activity and location		4	1	3
	PC7. attend safety drills organised by the company or any other authority		3	1	2
	PC8. demonstrate safe and accepted practices for personal protection		5	2	3
	PC9. learn first-aid procedure		3	1	2

	PC10. use insect repellents and safe drinking water		4	2	2
		<b>TOTAL</b>	<b>40</b>	<b>15</b>	<b>25</b>
SGJ/N0120: Work effectively with co-worker	PC1. assist other colleagues in performing tasks in a positive manner where required and possible	<b>35</b>	5	2	3
	PC2. consult and assist others to maximize effectiveness and efficiency in carrying out tasks		5	2	3
	PC3. demonstrate appropriate communication etiquette while working		5	2	3
	PC4. demonstrate active listening skills while interacting with others at work		5	2	3
	PC5. demonstrate responsible and disciplined behaviors at the workplace		5	2	3
	PC6. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		5	2	3
	PC7. ensure collaboration and group participation to achieve common goals		5	2	3
		<b>TOTAL</b>	<b>35</b>	<b>14</b>	<b>21</b>