

# Model Curriculum

## Desludging Operator

**SECTOR: GREEN JOBS**  
**SUB-SECTOR: WASTE MANAGEMENT**  
**OCCUPATION: OPERATION & MAINTENANCE**  
**REF ID: SGJ/Q6403, 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: '**Desludging Operator**' QP No. '**SGJ/O6403 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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# Desludging Operator

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Desludging Operator”, in the “Green Jobs” Sector/Industry and aims at building the following key competencies amongst the learner

<b>Program Name</b>	<b>Desludging Operator</b>		
<b>Qualification Pack Name &amp; Reference ID</b>	SGJ/Q6403, V 1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	30.11.2018
<b>Pre-requisites to Training</b>	5 <sup>th</sup> Pass		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• Empty sludge from the septic tank</li> <li>• Demonstrate preventive maintenance of desludging tank</li> <li>• Transport sludge in a safe manner to dedicated sludge disposal sites</li> <li>• Dispose sludge safely at the dedicated sludge disposal site</li> <li>• Set up venture for emptying, transport and disposal of sludge</li> <li>• Work effectively with co-workers</li> <li>• Maintain health and safety while emptying, transporting and disposing off sludge at the dedicated sludge disposal site.</li> </ul>		







Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>Identify avenues to recycle and reuse of sludge</li> </ul>	
	<b>Total Duration:</b> 200:00  <b>Theory Duration</b> 60:00 <b>Practical Duration</b> 140:00	<b>Unique Equipment Required:</b>  Different types and sizes of vacuum tank with trucks, pumps, suction hoses, and other machinery/equipment to empty the septic tank, Hand sanitizer/soap, Hand gloves, helmet/ cap, appropriate mask to cover face, reflective vest. (One for each candidate), gum boots, Short-answer and fill-in-the-blank papers, rubrics and quizzes, internet connecting devices etc.	

Grand Total Course Duration: **200 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [Skill Council for Green Jobs](#))







	PC9. ensure that the septic tank is properly closed		4	1	3
	PC10. clean their surroundings and pipes before leaving the site		3	1	2
	PC11. ensure that sludge vehicle is not leaking during the transit process		7	2	5
		<b>TOTAL</b>	<b>50</b>	<b>17</b>	<b>33</b>
SGJ/N6412: Preventive maintenance, transportation and safe disposal of sludge	PC1. check the oil levels in the vacuum pump, oil-cooling tank, hydraulic tank and tanker engine	<b>65</b>	5	2	3
	PC2. check the tanker fuel level, water levels in the tanker engine, windscreen water bottle, wash tank and water tank for the vacuum pump		5	2	3
	PC3. check the cooling radiator for the hydraulic oil and pump oil		5	2	3
	PC4. check if rear door closed and secured		5	2	3
	PC5. check tyre pressures, lights, indicators, horns		5	2	3
	PC6. prevent the tank from being overfilled		5	2	3
	PC7. check contacts between gaskets and seats and performance steel balls		5	2	3
	PC8. check leaks in the hydraulic system and power take-off shafts		5	2	3
	PC9. identify the dedicated route to the disposal site		5	2	3
	PC10. transport the sludge from source of sludge to disposal site		5	2	3
	PC11. maintain the log book of disposal site visit		5	2	3
	PC12. ensure safe disposal of sludge at the disposal site		5	2	3
	PC13. carry out cleaning of sludge vacuum tank after disposal		5	2	3
	<b>TOTAL</b>	<b>65</b>	<b>26</b>	<b>39</b>	
SGJ/N6413: Health and safety of workplace while doing	PC1. acquire knowledge of ways and means to handle emergency situations like gas leakage, natural disasters etc.	<b>50</b>	5	2	3

desludging services	PC2. ensure health and safety Understand means to mitigate risks to people and property during emergencies		5	2	3
	PC3. minimize health and safety risks to self and others by following documented safety protocols		5	2	3
	PC4. monitor the workplace and work processes for potential risks and threats		5	2	3
	PC5. carry out periodic walk-through inspections to keep work area free from hazards and obstructions		5	2	3
	PC6. report hazards and potential risks/ threats to supervisors or other authorized personnel		5	2	3
	PC7. participate in mock drills/ evacuation procedures organized at the workplace		5	2	3
	PC8. undertake first aid, fire-fighting and emergency response training		5	2	3
	PC9. take action based on instructions in the event of emergencies or accidents		5	2	3
	PC10. follow organization procedures for evacuation when required		5	2	3
		<b>TOTAL</b>		<b>50</b>	<b>20</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>
SGJ/N6414: Entrepreneurship skills for FSSM services	PC1. identify potential customers from residential commercial & institutional areas	<b>70</b>	3	1	2
	PC2. conduct a market research for to set-up the FSSM business		5	2	3
	PC3. recognize methods of emptying, transport and disposal of sludge and operational challenges		5	2	3
	PC4. identify key activities of desludging services		5	2	3
	PC5. identify size and configuration of key tools like sludge tank, truck and specific machinery / equipment's required for desludging services business		7	2	5
	PC6. purchase key resources required for establishment of FSSM services business		5	2	3
	PC7. identify and manage the technical challenges of desludging business		5	2	3
	PC8. establish tentative rate for desludging services in residential and commercial areas		7	2	5
	PC9. registration of vehicle with ULBs for desludging services		4	2	2
	PC10. repair and maintenance of vehicle and sludge vacuum tank		5	2	3
	PC11. maintain the log book of disposal site visit		5	2	3
	PC12. ensure safe disposal of sludge at the disposal site		4	2	2
	PC13. carry out cleaning of sludge vacuum tank after disposal		5	2	3
	PC14. identify avenues to recycle and reuse of sludge		5	2	3
	<b>TOTAL</b>	<b>70</b>	<b>27</b>	<b>43</b>	