



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

POS 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[1]
2.	Qualifications Pack[2]
3.	Glossary of Key Terms[3]
4.	OS Units[5]
5.	Annexure: Nomenclature for QPs and OS[32]
6.	Assessment Criteria[34]

Introduction Qualifications Pack- Septic Tank Technician

SECTOR: GREEN JOBS

SUB-SECTOR: Waste Management

OCCUPATION: Operation & Maintenance

REFERENCE ID: SGJ/6402

ALIGNED TO: NCO-2015/7126.0101

Brief Job Description:

Septic Tank Technician is responsible for fabrication of different types of septic tanks/ soak pit and install at the site (commercial/institutional/residential). He/ She is responsible for selecting suitable configuration of septic tanks as per client requirement and execute its fabrication and installation with fellow masons. He/ She also undertake the work of repair and maintenance of existing septic tanks.

Personal Attributes: The Individual is expected to be physically fit and should be able to work across various location/site conditions. He/ She should be self-motivated and able to produce good quality work. He/ She must have good communication skill, team spirit, be courteous and polite. He should be efficient in working with proper planning skills.







Qualifications Pack Code	SGJ/Q6402		
Job Role	Septic Tank Technician		
Credits(NSQF)	TBD	Version number	1.0
Sector	Green Jobs	Drafted on	23/05/2018
NSQC Clearance on	Waste Management	Last reviewed on	30/11/2018
Occupation	Operation & Maintenance	Next review date	29/11/2020

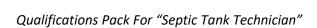
Job Role Septic Tank Technician		
Role Description	Septic Tank Technician is responsible for fabrication of different types of septic tanks/ soak pit and install fixed as well as prefabricated septic tank at the site (commercial/institutional /residential). He/ She is would assess the site and decide suitable design and size of the septic tanks as per client requirement. He/She would execute its fabrication including that of prefabricated septic tank with fellow masons. He/ She also undertake the work of repair and maintenance of existing septic tanks.	
NSQF level	4	
Qualifications Maximum Educational	5 th Pass Not Applicable	
Prerequisite License or Training	N/A	
Minimum Job Entry Age	19 years	
Experience	Minimum experience of 3 year in masonry work	
Applicable National Occupational Standards (NOS)	SGJ/N6407: Excavation, fabrication and installation of septic tank / soak pit SGJ/N6408: Installation of prefabricated septic tank	
	SGJ/N6409: Repair and maintenance of septic tank /soak pit SGJ/N6410: Maintain personal health & safety in FSSM SGJ/N0120: Work effectively with co-workers	
Performance Criteria	As described in the relevant Occupational Standards (OS) units	





Keywords/Term s	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	Job role defines a 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 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.	
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 organizational specific knowledge that an individual need to perform 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/ 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.	







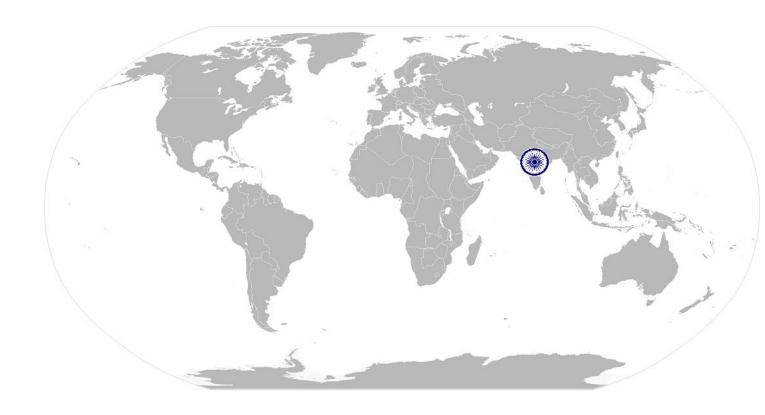
Acronyms

Keywords /Terms	Description
СРНЕЕО	Central Public Health and Environmental Engineering Organization
FSSM	Faecal Sludge and Septage Management
NOS	National Occupational Standard
NSQF	National Skills Qualification Framework
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
NBO	National Building Code
OS	Occupational Standards
PC	Performance Criteria
QP	Qualification Pack
SCGJ	Skill Council for Green Jobs
SSC	Sector Skill Council





National Occupational Standard



Overview

This unit is about assessment of site and size of septic tank / soak pit as per norms of Central Public Health and Environmental Engineering Organisation(CPHEEO) Manual, IS:2470 and National Building Code





Assessment of Site and Size of Septic Tank / Soak Pit

Unit Code	SGJ/N6406		
Unit Title (Task)	Assessment of Site and Size of Septic Tank / Soak Pit		
Description Scope	This unit is about assessment of site and size of septic tank / soak pit as per norms of Central Public Health and Environmental Engineering Organisation(CPHEEO) Manual, IS:2470 and National Building Code (NBO) This unit/task covers the following:		
	 Survey and assessment of site Type selection of septic tank/soak pit and identification of tools 		
Performance Criteria(PC) w.	r.t. the Scope		
Element Survey and assessment of site	Performance Criteria To be competent, the user/ individual must be able to: PC1. assess user requirement to position septic tank/soak pit PC2. estimate load as per the number of users in the family or as per usage at the commercial/institutional site PC3. assess the located site of septic tank / soak pit considering ground conditions, water table, water pipeline, underground water tank, etc.		
Type selection of septic tank/soak pit and identification of tools	PC4. choose appropriate size and design of the septic tank /soak pit as per CPHEEO norms PC5. prepare cost estimates for fabrication and installation work PC6. identify tools, equipment, material and procedures required for masonry and installation of septic tank /soak pit PC7. stack and store materials and equipment appropriately at the site		
Knowledge and Understanding (K)			
A. Organizational Context (Knowledge of the company /organization and its processes)	The user/individual on the job needs to know and understand: KA1. organizations culture and setup if working in a group/organization KA2. rules and regulations of a gated community/ society		
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. various types of septic tank(s) /soak pit KB2. working principle of septic tank /soak pit KB3. costing of different types of septic tanks /soak pit KB4. norms of CPHEEO Manual, IS:2470 and National Building Code (NBO) related to fabrication and maintenance of septic tank /soak pit KB5. various geographical conditions and area required for septic tank /soak pit KB6. practitioner hand book KB7. components of septic tank /soak pit design, fabrication and Installation KB8. addition and subtraction KB9. selection, handling and repair of tools required for the operation KB10. use of following key tools and equipment for installing piping fixtures and fitting the prefabricated septic tank like, Tape/Laser measure, Hammers, Trowel, Hoe, Spirit level, Plumb and Right Angle etc. KB11. dos and don'ts while fabricating the septic tank /soak pit in various geographical condition		





Assessment of Site and Size of Septic Tank / Soak Pit

Skills		
A. Core Skills / Generic	Writing Skills	
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 and understand vernacular/ local language	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA3. express statements or information clearly so that co-workers and	
	customers can understand	
D D C 1 LCU!!!	SA4. understand the main points of simple discussions	
B. Professional Skills	Decision making The user /individual on the job needs to know and understand how to	
	The user/individual on the job needs to know and understand how to: SB1. follow the organisation rule-based decision-making process	
	SB2. take decision with systematic course of actions and /or response	
	Plan and Organise	
	The user/individual on the job needs to know and understand how to:	
	SB3. planning and organisation of work to meet deadline	
	SB4. work constructively and collaboratively with the team	
	Customer centric	
	The user/individual on the job needs to know and understand how to: SB5. follow code of conduct	
	SB6. manage relationships with clients	
	obe: manage relationships were never to	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	SB7. recognise problems and search for solution	
	SB8. choose best methods to complete assigned tasks	
	SB9. approach relevant authority when required	
	Analytical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB10. apply domain knowledge, observation to select course of action to perform tasks related to fabrication of septic tanks /soak pit	
	perioriii tasks related to labilication of septic talks / soak pit	
	Critical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB11. critically evaluate information obtained from customers and co-workers to	
	perform day to day activities SB12. ask questions for better understanding	
	SB12. ask questions for petter understallding	

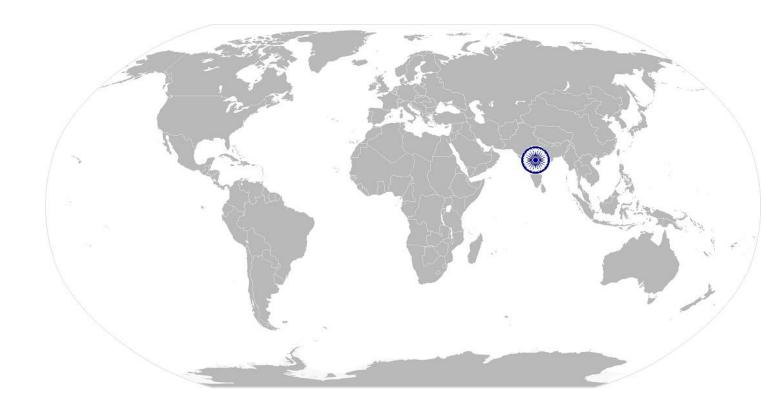




Assessment of Site and Size of Septic Tank / Soak Pit

NOS Version Control

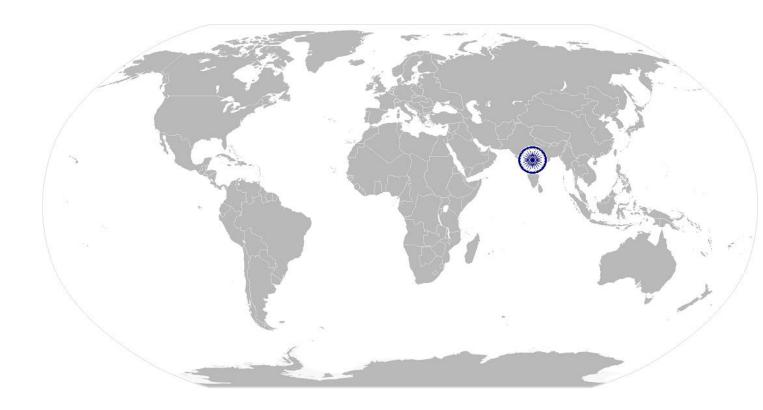
NOS Code	SGJ/N6406		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	23/05/2018
Industry Sub-sector	Waste Management	Last reviewed on	30/11/2018
Occupation	Site Assessment	Next review date	29/11/2020







National Occupational Standard



Overview

This unit is about excavation, fabrication and installation of the septic tank /soak pit.





Excavation, fabrication and installation of septic tank /soak pit

Unit Code	SGJ/N6407		
Unit Title (Task)	Excavation, fabrication and installation of Septic Tank / Soak Pit		
Description	This unit is about excavation, fabrication and installation of the septic tank		
Contract	/soak pit		
Scope	This unit/task covers the following:		
	Marking layout as per the CPHEEO norms		
	Excavation of the site		
	Fabrication and installation of septic tank /soak pit		
Performance Criteria(PC) w.	r.t. the Scope		
Element	Performance Criteria		
Marking layout as per the	To be competent, the user/ individual must be able to:		
CPHEEO norms	PC1. mark the specifications of the septic tank /soak pit layout on the ground		
	PC2. carry out ground leveling, surfacing and sloping related tasks prior to		
	fabrication of septic tank / soak pit		
Excavation of the site	PC3. carry out excavation for foundation keeping in view adjacent buildings,		
	ground water table and soil conditions		
	PC4. carry out the excavation to the desired depth and required slope using		
	appropriate tools and equipment such as spade, wheel barrows, pans etc.		
	PC5. provide necessary support to vertical side of excavated area to avoid soil		
	collapse as per applicability		
	PC6. ensure appropriate disposal of the material from the excavated pit		
	PC7. check for loose material, soil lumps, pebbles on achieving the desired earth		
	level		
	PC8. ensure surface dressing work is carried out by disposing loose material,		
	gravels, plant roots, sludge, muck or debris as per requirement to the appropriate locations		
	PC9. ensure compaction of base by ramming		
Fabrication and	PC10. determine work requirement and sequence of masonry work		
installation of septic tank	PC12. break bricks and concrete using hammers, drill and hand tools		
/soak pit	PC13. lay bricks/mortar/concrete in septic tank /soak pit		
	PC14. install proper ventilation pipe		
	PC15. check and ensure re-filling and compaction of excavated trenches, pits		
	surrounding the structures or at necessary location as per soil site conditions		
	PC16. ensure proper finishing of work		
Knowledge and Understanding (K)			
Ţ.	The user/individual on the job needs to know and understand:		
(Knowledge of the	KA1. organization culture and setup if working in a group/organization		
company /organization			
and its processes)	KA3. importance of individual role in the organization		
	KA4. risk and impact of not following defined procedures and work instructions		





Excavation, fabrication and installation of septic tank /soak pit

B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. different types of materials (bricks, cements, mortar, concrete) KB2. different types of fixtures (basins, WC pan, water, septic tank, soak pit and ventilation etc) KB3. basic principles of measurement of septic tank /soak pit KB4. different types of masonry terminology KB5. relevant tools for marking and fabrication like hoe, trowel float, hammer etc KB6. dos and don'ts while constructing the septic tanks /soak pit KB7. types of foundation, importance and purpose of foundation, knowledge about depth and height KB8. importance and purpose of septic tank /soak pit knowledge about their suitable location and depth KB9. work space requirement in excavated area, base preparation and levelling
	KB10. personal protection equipment including the use of related safety gears & equipment
Skills	
A. Core Skills / Generic	Writing Skills
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 vernacular language SA3. understand various signs used on objects SA4. basic numeracy skills
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. express statements or information clearly so that other co-workers can understand SA6. understand the main points of simple discussions
B. Professional Skills	Decision Making
B. Professional Skills	The user/individual on the jobs needs to know and understand how to: SB1. decide on whether the workplace is safe for working SB2. decide on the depth of excavation based on ground water and soil conditions Plan and Organize The user/individual on the job needs to know and understand how to: SB3. plan work and organize required resources
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. communicate courteously with others in a polite manner SB5. complete work as per agreed time schedule and quality
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB6. approach local authorities, in case of emergency (police, doctor, etc.)





Excavation, fabrication and installation of septic tank /soak pit

Analytical Thinking		
The user/individual on the job needs to know and understand how to:		
SB7. analyze day to day experience to correct future course of action		
Critical Thinking		
N.A.		
Reflective Thinking		
The user/individual on the job needs to know and understand how to:		
SB8. learn from past mistake regarding use of hazardous tools and equipment		



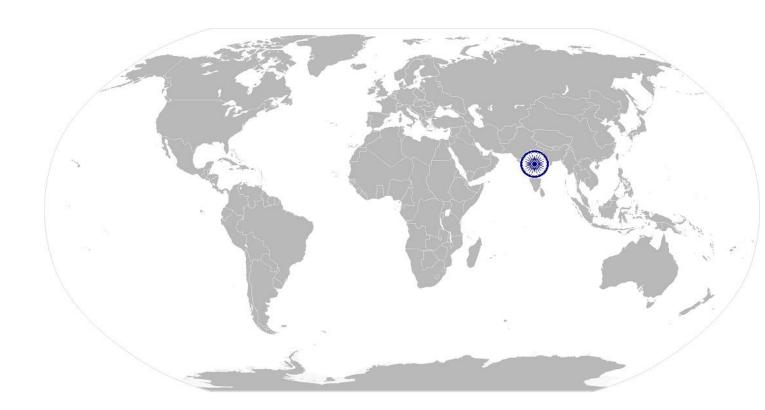




Excavation, fabrication and installation of septic tank /soak pit

NOS Version Control

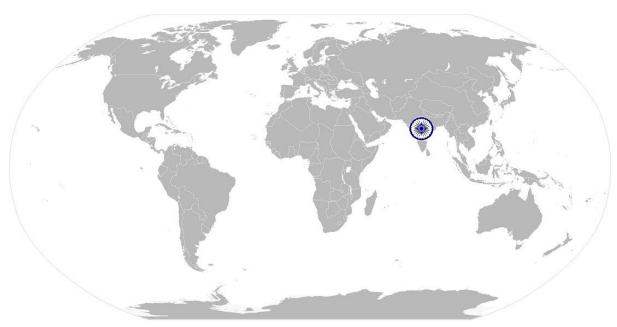
NOS Code	SGJ/N6407		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	23/05/2018
Industry Sub-sector	Waste Management	Last reviewed on	30/11/2018
Occupation	Fabrication and installation	Next review date	29/11/2020







National Occupational Standard



Overview

The Unit is about installation and demonstration of prefabricated septic tanks.





Installation of prefabricated septic tank

Unit Code	SGJ/N6408
Unit Title (Task)	Installation of prefabricated septic tank
Description	The Unit is about installation and demonstration of prefabricated septic tanks.
Scope	This unit/task covers the following:
	Installation of prefabricated septic tank
Performance Criteria(PC) w.r.t. the Scope
Element	Performance Criteria
Installation of prefabricated septic tank	To be competent, the user/ individual must be able to: PC1. outline layout area required for installation of prefabricated septic tank PC2. excavate the site based on the specifications PC3. undertake laying out intake pipe to the septic tank PC4. ensure proper fixation of septic tank PC5. install ventilation pipe PC6. check proper installation and leakage of the septic tank PC7. demonstrate functioning of septic tank
Knowledge and Understa	
A. Organizational Context (Knowledge of the company /organization and its processes)	The user/individual on the job needs to know and understand: KA1. organizational culture and setup if working in a group/organization KA2. rules and regulations of a gated community/ society
B. Technical Knowledge	The individual on the job needs to know and understand: KB1. various geographical conditions and area required for installation of prefabricated septic tank KB2. various components of prefabricated septic tank and its Installation. KB3. working principle and procedure for installation of prefabricated septic tank KB4. selection and handling of tools required for the installation and fitting of the prefabricated septic tank KB5. dos and don'ts while installing the prefabricated septic tank in various geographical conditions.
Skills	
A. Core Skills / Generic	Writing Skills
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 and understand vernacular/ local language





SGJ/N6408 I	nstallation of prefabricated septic tank
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA3. express statements or information clearly so that others can understand SA4. understand the main points of simple discussions
B. Professional Skills	Decision making
	The user/individual on the job needs to know and understand how to: SB1. follow the organisation rule-based decision-making process SB2. take decision with systematic course of actions and /or response
	Plan and Organise
	The user/individual on the job needs to know and understand how to: SB3. plan and organise work to meet deadline SB4. work constructively and collaboratively with the team
	Customer centric
	The user/individual on the job needs to know and understand how to: SB5. follow code of conduct SB6. manage relationships with team and clients with intent on satisfying its requirement for assembly process
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB7. recognise problems and search for solution SB8. choose best methods to complete assigned tasks SB9. approach relevant authority when required
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB10. apply domain knowledge, observation to select course of action to perform tasks related to installation of septic tanks
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB11. critically evaluate information obtained from customers and co-workers to perform day to day activities SB12. ask questions for better understanding





Installation of prefabricated septic tank

NOS Version Control

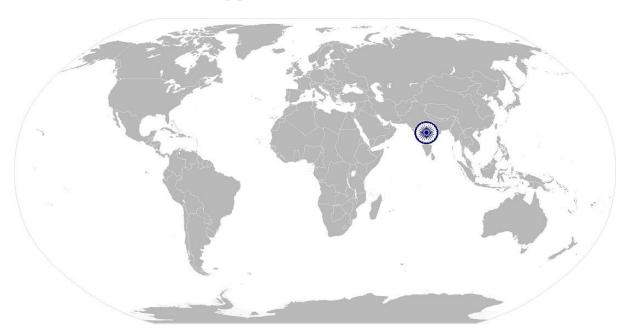
NOS Code	SGJ/N6408		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	23/05/2018
Industry Sub-sector	Waste Management	Last reviewed on	30/11/2018
Occupation	Installation	Next review date	29/11/2020







National Occupational Standard



Overview

This unit is about diagnosing, repair and maintenance of septic tanks /soak pits including civil work, plumbing work such as pipes fitting and sanitary fixtures in residential, commercial and institutional areas.





SGJ/N6409 Repair and maintenance of septic tank /soak pit

Unit Code	SGJ/N6409	
Unit Title (Task)	Repair and maintenance of septic tank / soak pit	
Description Scope	This unit is about diagnosing, repair and maintenance of septic tanks /soak pits including civil work, plumbing work such as pipes fitting and sanitary fixtures in residential, commercial and institutional areas This unit/task covers the following: Repair and maintenance of septic tank /soak pit as per the CPHEEO norms Testing of functionality of septic tank post repair	
Performance Criteria(PC)	w.r.t. the Scope	
Element	Performance Criteria	
Repair and maintenance of septic tank /soak pit as per the CPHEEO norms	PC1. identify and diagnose the problems and /or failures in the septic tank / soak pit PC2. empty septic tank /soak pit before repair work PC3. estimate the materials required and number of hours/days required to complete the repair work PC4. prepare cost estimates and timeline for repair work PC5. schedule the repair activities and deliver the task within stipulated time PC6. carry out repair of plumbing work including inlet and outlet baffle, partition wall, access opening and cover, ventilation or vent pipe, outlet pipe PC7. respond to emergency situations for resolving immediate safety concerns PC8. ensure minimum wastage of materials and damage to the septic tank /soak pit during repair and maintenance PC9. clear the work area and ensure proper waste disposal after completion of repair work	
Testing of functionality of septic tank /soak pit post repair	To be competent, the user/ individual must be able to: PC10. ensure the system of water flow, sewage flow, etc PC11. test the functionality of the septic tank / soak pit (post repair work)	
Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the company /organization and its processes)	The user/individual on the job needs to know and understand: KA1. organizations culture and setup of working in a group/organization KA2. rules and regulations of a gated community/ society KA3. importance of the individual's role in the work flow	





SGJ/N6409	Panair and maintanance of	f contic tank /coak nit
3GJ/N04U9	Repair and maintenance o	j septic tank / soak pit

B. Technical Knowledge	The individual on the job needs to know and understand:		
	KB1. local language		
	KB2. plumbing and masonry terminologies		
	KB3. simple mathematical calculation for quantity of material required and i		
	costing		
	KB4. relevant hand and power tools for repair works such as wrecking bar, pliers,		
	power drill, pipe cutter, pipe bender, threading tool, hacksaw, measure tape		
	etc.		
	KB5. different types of materials required for basic sanitary fittings and necessary		
	fixtures		
	KB6. various components of septic tank /soak pit designs and fabrication such as		
	inlet and outlet baffle, partition wall, access opening and cover, ventilation or		
	vent pipe, outlet pipe		
	KB7. identification of various types of defects such as leakages, improper alignment,		
	damage of inlet and outlet pipes etc.		
Skills			
A. Core Skills / Generic	Writing Skills		
Skills	The user/individual on the job needs to know and understand how to:		
	SA1. filling of forms as required for seeing approval of repair work		
	SA2. read vernacular language		
	SA3. express statements or information clearly so that co-worker can understand		
	SA4. understand the crux of discussions		
	Reading skills		
	The user/individual on the job needs to know and understand how to:		
	SA5. measure and mark as required		
	Oral Communication (Listening and Speaking Skills)		
	The user/individual on the job needs to know and understand how to:		
	SA6. delegate work to co-workers/team as required		
	SA7. interpret instructions and requirement correctly		
D. Duofossianal Chille			
b. Professional Skills	<u> </u>		
	•		
	· · ·		
	·		
	-		
	•		
	304. plan scriedule of work		
B. Professional Skills	SA7. Interpret instructions and requirement correctly SA8. co-ordinate with co-workers Decision Making The user/individual on the jobs needs to know and understand how to: SB1: report potential sources of danger and emergency SB2: follow prescribed procedure in the event of an accident SB3: wear appropriate safety gear to avoid an accident Plan and Organize The user/individual on the job needs to know and understand how to: SB4: plan schedule of work		





SGJ/N6409 Repair and maintenance of septic tank /soak pit

Customer Centricity

The user/individual on the job needs to know and understand how to: SB5: communicate courteously with others in a polite manner

Problem Solving

The user/individual on the job needs to know and understand how to: SB6: approach local authorities, in case of emergency (police, doctor, etc.)

Analytical Thinking

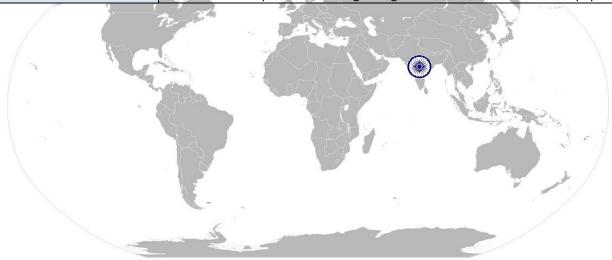
The user/individual on the job needs to know and understand how to: SB7: analyze day to day experience to correct future course of action

Critical Thinking

N.A.

Reflective Thinking

The user/individual on the job needs to know and understand how to: SB8: Learn from past mistake regarding use of hazardous tools and equipment



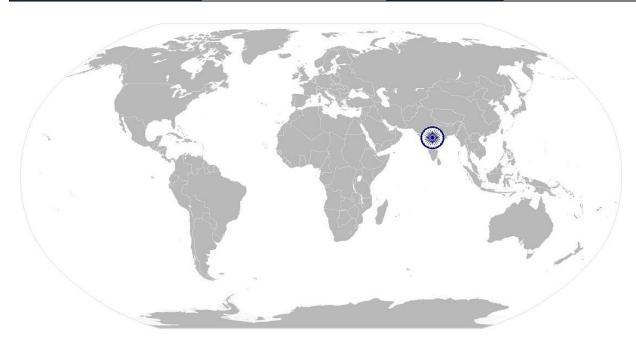




Repair and maintenance of septic tank /soak pit

OS Version Control

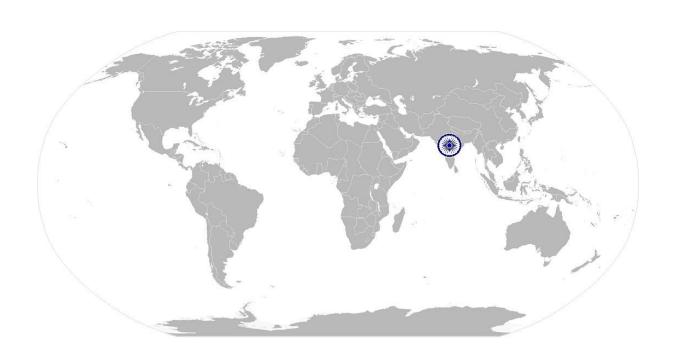
NOS Code	SGJ/N6409		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	23/05/2018
Industry Sub-sector	Waste Management	Last reviewed on	30/11/2018
Occupation	Repair and maintenance	Next review date	29/11/2020







National Occupational Standard



Overview

This unit is about being aware of, communicating & taking steps towards minimizing potentials hazards and dangers of accidents on the job and maintaining occupational health & safety.



N·S·D·C National Skill Development Corporation

SGJ/N6410

Maintain personal health & safety in FSSM

Unit Code	SGJ/N6410		
Unit Title (Task)	Maintain Personal Health & Safety in FSSM		
Description	This unit is about being aware of, communicating & taking steps towards minimizing potentials hazards and dangers of accidents on the job and maintaining occupational health & safety.		
Scope	 This unit/task covers the following: Establish and follow safe work procedure Handling of tools and equipment for health and safety purpose 		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Establish and follow safe work procedure	To be competent, the user/individual on the job must be able to: PC1. display sign boards/caution such as "Work in progress" or "Danger" to avoid accidents related to use of sharp tools and equipment PC2. identify contact person when workplace safety policies are violated PC3. provide information about incident/violation PC4. identify the location of first aid materials and administer first-aid PC5. identify personal safety hazards or work site hazards		
Handling of tools and equipment for health and safety purpose	To be competent, the user/individual on the job must be able to: PC6. identify the personal protection equipment required for specific work activity and location PC7. attend safety drills organised by the company or any other authority PC8. demonstrate safe and accepted practices for personal protection PC9. learn first-aid procedure PC10. use insect repellents and safe drinking water		
Knowledge and Unde	rstanding (K)		
A. Organizational Context (Knowledge of the organization and its processes)	The user/individual on the job needs to know and understand: KA1. organization's documentation policy on safety and hazards and personnel management KA2. organization's reporting structure & organization culture KA3. organization's different department and concerned authority		
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. how to use tools and equipment without suffering any physical harm KB2. first-aid procedure KB3. diseases caused due to unsafe water, biting of insects and following unhygienic practices KB4. evacuation and emergency procedures KB5. occupational health and safety (OHS) standards KB6. importance of personal protective equipment (PPE)		





Maintain personal health & safety in FSSM



Skills (S)			
A. Core Skills/	Oral Communication skills (Listening and Speaking Skills)		
Generic Skills	The user/ individual on the job needs to know and understand how to:		
	SA1. effectively communicate the danger and emergency		
	SA2. express statements to inform clearly so that others can understand		
	SA3. understand the main points of simple discussions		
	Reading Skills		
	The user/individual on the job needs to know and understand how to: SA4. read from different sources		
	SA5. understand the various colour codes used in safety		
	Organising Skills		
	The user/individual on the job needs to know and understand how to:		
	SA6. keep all the tools in an organised manner so as to avoid accidents		
	SA7. keep the work environment safe and clean		
B. Professional Skills	Decision Making		
	The user/individual on the jobs needs to know and understand how to:		
	SB1: report potential sources of danger and emergency		
	SB2: follow prescribed procedure in the event of an accident		
	SB3: wear appropriate safety gear to avoid an accident Plan and Organize		
	The user/individual on the job needs to know and understand how to: SB4: plan safety check schedules		
	Customer Centricity		
	The user/individual on the job needs to know and understand how to:		
	SB5: communicate courteously with others in a polite manner		
	Problem Solving		
	The user/individual on the job needs to know and understand how to:		
	SB6: approach local authorities, in case of emergency (police, doctor, etc.)		
	Analytical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB7: analyze day to day experience to correct future course of action		
	Critical Thinking		
	N.A.		
	Reflective Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB8: learn from past mistake regarding use of hazardous tools and equipment		
	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		



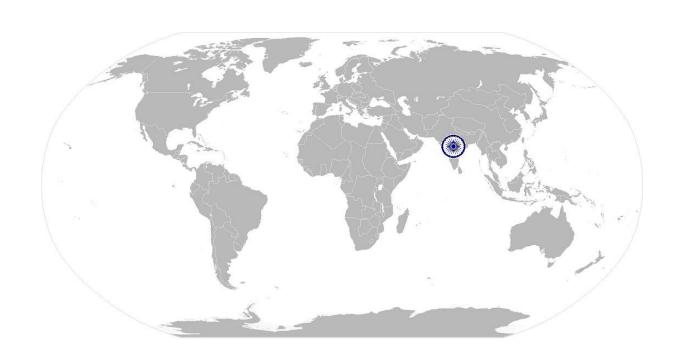


Maintain personal health & safety in FSSM



NOS Version Control

NOS Code	SGJ/N6410		
Credits (NSQF)	TBD	Version number	1.0
Industry	Green Jobs	Drafted on	23/05/2018
Industry Sub-sector	Waste Management	Last reviewed on	30/11/2018
Occupation	Health and safety	Next Review Date	29/11/2020

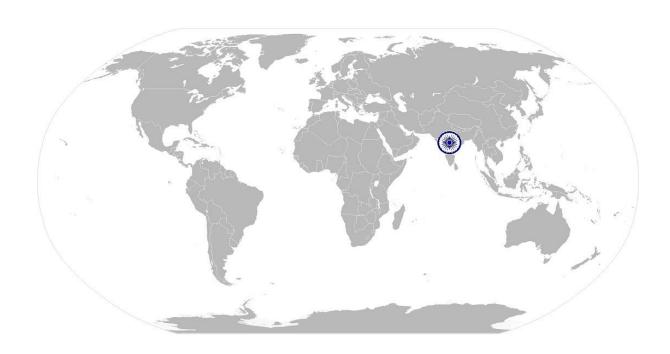






/ \ Corporation

National Occupational Standard



Overview

This unit covers basic practices that improves the effectiveness of working with co-workers.



N · S · D · C National Skill Development Corporation

Work effectively with co-workers

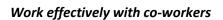
Unit Code	SGJ/N0120
Unit Title (Task)	Work effectively with co-workers
Description	This unit covers basic practices that improves the effectiveness of working with coworkers.
Scope	This unit/task covers the following: • Working effectively with co-workers
Performance Criteria(I	PC) w.r.t. the Scope
Element	Performance Criteria
Working effectively with co-workers	The user/individual on the job should be able to: PC1. assist other colleagues in performing tasks in a positive manner where required and possible PC2. consult and assist others to maximize effectiveness and efficiency in carrying out tasks PC3. demonstrate appropriate communication etiquette while working PC4. demonstrate active listening skills while interacting with others at work PC5. demonstrate responsible and disciplined behaviors at the workplace PC6. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict PC7. ensure collaboration and group participation to achieve common goals
Knowledge and Unde	erstanding (K)
A. Organizational context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. relevant people and their responsibilities within the work area
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. importance of effective communication in the workplace KB2. importance of teamwork in organizational and individual success KB3. various components of effective communication KB4. key elements of active listening KB5. value and importance of active listening and assertive communication barriers to effective communication KB6. importance of tone and pitch in effective communication KB7. importance of avoiding casual expletives and unpleasant terms while communicating professional circles KB8. how poor communication practices can disturb people, environment and cause problems for the employee, the employer and the customer KB9. key elements and importance of non-verbal communication KB10. importance of ethics for professional success KB11. importance of discipline for professional success KB12. what constitutes disciplined behavior for a working professional KB13. common reasons for interpersonal conflict KB14. importance of developing effective working relationships for professional success KB15. expressing and addressing grievances appropriately and effectively KB16. importance of teamwork and collaboration



Work effectively with co-workers



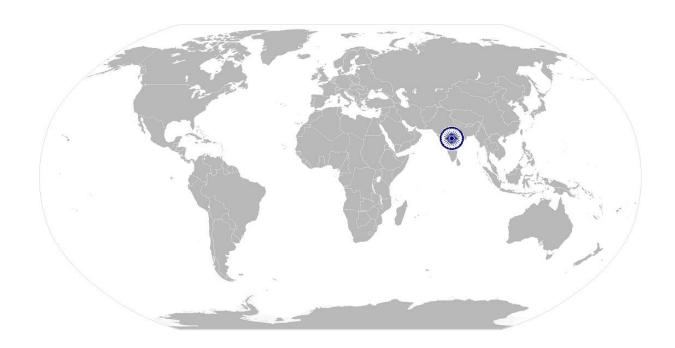
SI	kills (S)			
	Core Skills/	Writing Skills		
	Generic Skills	The user/ individual on the job needs to know and understand how to:		
		SA1. note the information communicated		
		SA2. record the readings of various parameters in the prescribed format		
		SA3. note down observations related to the activity		
		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 from different sources- books, screens in machines and signage.		
		SA6. 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:		
		SA7. express statements or information clearly so that others can hear and		
		understand		
		SA8. participate in and understand the main points of simple discussions		
		SA9. respond appropriately to any queries		
		SA10. communicate effectively with supervisor, peers and subordinates		
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. analyze critical points in day to day tasks and identify control measures to		
		solve the issue		
		SB3. handle issues in case the superior is available (as per the authority matrix		
		Plan and Organize		
		The user/individual on the job needs to know and understand how to:		
		SB4. plan and organize 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 organization code of conduct		
		SB8. manage relationships with public with intent of 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		
		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		
		N.A.		
		Reflective Thinking		
		The user/individual on the job needs to know and understand how to:		
		SB13: learn from past mistake regarding use of hazardous tools and equipment		



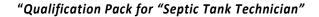


NOS Version Control

NOS Code	SGJ/N0120			
Credits (NSQF)	TBD	Version number	1.0	
Industry	Green Jobs	Drafted on	23/05/2018	
Industry Sub-sector	Waste Management	Last reviewed on	30/11/2018	
Occupation	Human Resource Development	Next review date	29/11/2020	



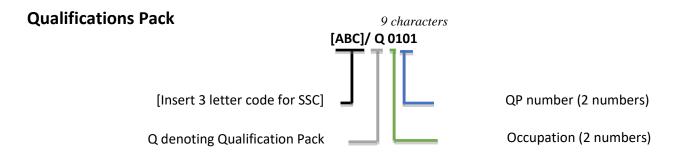




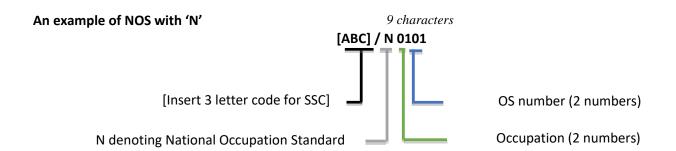


Annexure

Nomenclature for QP and NOS



Occupational Standard



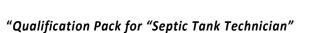




The following acronyms/codes have been used in the nomenclature above:

	Sub-sector	Range of Occupation numbers
Renewable	Solar Photovoltaic	01-05
Energy	Solar Thermal	06-10
(01-35)	Wind	11-15
	Hydro	16-20
	Biomass	21-25
	Geothermal	26-30
	All Renewables (Cross-cutting/ Enabling Activities)	31-35
Green Transportation	Alternative Fuel Transportation	36-40
(36 - 40)	Bio-fuels and Farming	40-45
	Other Green Transportation	46-50
Green Fabrication	Green Buildings	51-55
(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 Jobs	Carbon Sinks	76-80
(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 Q P or N OS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01







CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Septic Tank Technician **Qualification Pack** SGJ/Q 6402

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 Total Marks: 270		Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
SGJ/N6406: Assessment of site and size of	PC1. assess user requirement to position septic tank/soak pit		5	2	3
septic tank / soak pit	PC2. estimate load as per the number of users in the family or as per usage at the commercial/institutional site		5	2	3
	PC3. assess the located site of septic tank / soak pit considering ground conditions, water table, water pipeline, underground water tank, etc.		7	3	4
	PC4. choose appropriate size and design of the septic tank /soak pit as per CPHEEO norms	56	6	2	4
	PC5. prepare cost estimates for fabrication and installation work		5	2	3
	PC6. identify tools, equipment, material and procedures required for masonry and installation of septic tank /soak pit		5	2	3
	PC7. stack and store materials and equipment appropriately at the site		3	1	2
		TOTAL	36	14	22
SGJ/N6407: Excavation,	PC1. mark the specifications of the septic tank /soak pit layout on the ground	76	5	2	3





fabrication and installation of septic tank /	PC2. carry out ground leveling, surfacing and sloping related tasks prior to fabrication of septic tank / soak pit		7	2	5
soak pit	PC3. carry out excavation for foundation keeping in view adjacent buildings, ground water table and soil conditions		3	1	2
	PC4. carry out the excavation to the desired depth and required slope using appropriate tools and equipment such as spade, wheel barrows, pans etc.		5	2	3
	PC5. provide necessary support to vertical side of excavated area to avoid soil collapse as per applicability		6	2	4
	PC6. ensure appropriate disposal of the material from the excavated pit		3	1	2
	PC7. check for loose material, soil lumps, pebbles on achieving the desired earth level		5	2	3
	PC8. ensure surface dressing work is carried out by disposing loose material, gravels, plant roots, sludge, muck or debris as per requirement to the appropriate locations		5	2	3
	PC9. ensure compaction of base by ramming		3	1	2
	PC10. determine work requirement and sequence of masonry work		5	2	3
	PC11. mix cement using hoes, cement mixing equipment or hand tools		5	2	3
	PC12. break bricks and concrete using hammers, drill and hand tools		5	2	3
	PC13. lay bricks/mortar/concrete in septic tank /soak pit		5	2	3
	PC14. Install proper ventilation pipe		6	2	4
	PC15. check and ensure re-filling and compaction of excavated trenches, pits surrounding the structures or at necessary location as per soil site conditions		5	2	3
	PC16. ensure proper finishing of work		3	1	2
		TOTAL	76	28	48
SGJ/N6408: Installation of prefabricated septic tank	PC1. outline the layout area required for installation of prefabricated septic tank	- 33	6	2	4
	PC2. excavate the site based on the specifications		5	2	3
	PC3. undertake laying out intake pipe to prefabricated septic tank		5	2	3
	PC4. ensure proper fixation of septic tank		4	2	2





3 21 3 3 3 2
3 21 3 3 3 3
21 3 3 3 3 2
3 3 3 2
3 3 2
3 3 2
3 2
2
3
2
2
3
3
3
30
4
3
2
2
2
3
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
		TOTAL	40	15	25
SGJ/N0120: Work effectively with co-worker	PC1. assist other colleagues in performing tasks in a positive manner where required and possible		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	35	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
		TOTAL	35	14	21