

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GREEN JOBS



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....	P24
6. Assessment Criteria.....	P26

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

Introduction

Qualifications Pack- Improved Cookstove Installer

SECTOR: GREEN JOBS

SUB-SECTOR: Renewable Energy

OCCUPATION: Installer

REFERENCE ID: SGJ/Q2101

ALIGNED TO: NCO-2004/ NIL

Improved Cookstove Installer specializes in construction of cookstove as per standard mould(s) and installation at appropriate site.

Brief Job Description: Improved Cookstove installer select materials, prepare appropriate mixture, construct cookstove as per standard mould(s), embedding non-masonry items, fire for curing, installation at the appropriate site and demonstrate functioning of the Cookstove.

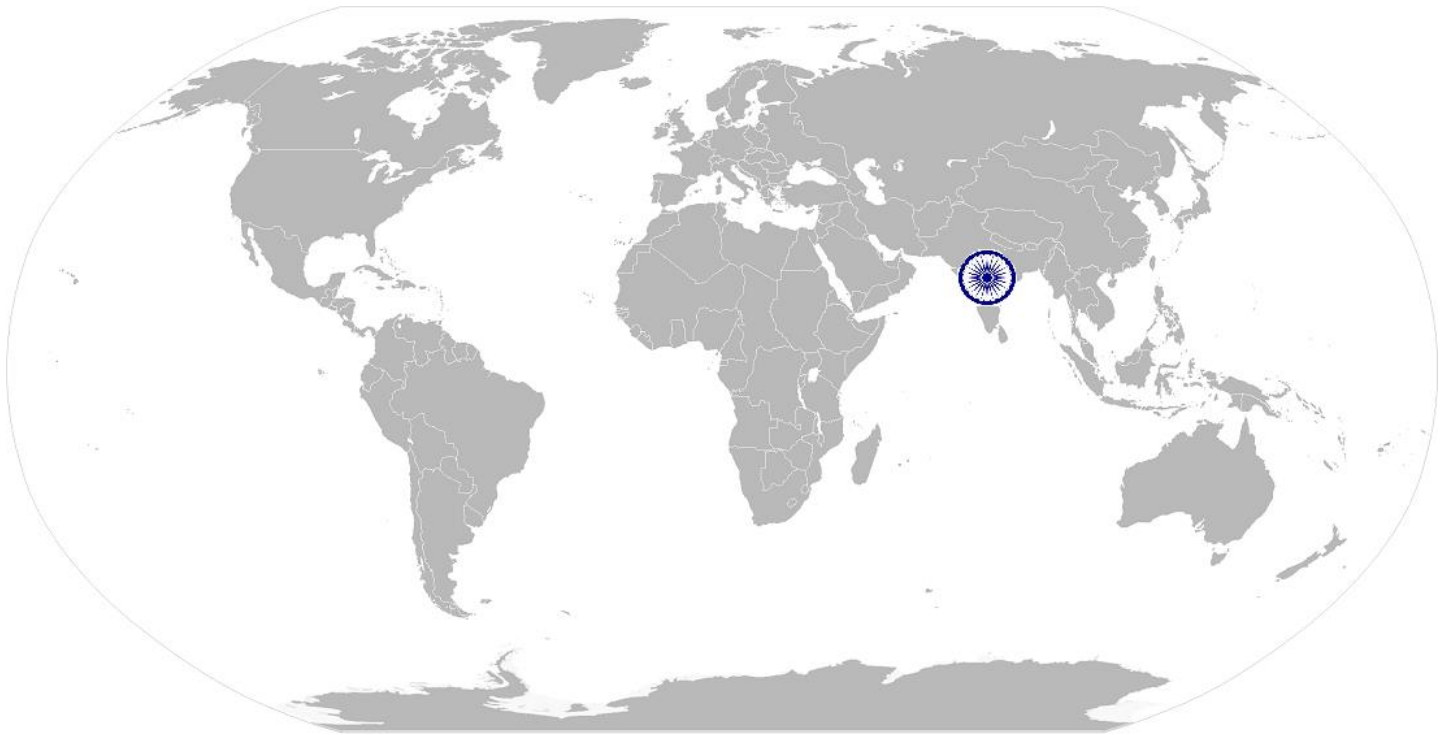
Personal Attributes: This job requires the individual to concentrate on the job at hand and complete the work safely. He/she should be able to communicate in local language. He / She must possess energy and strength for physical work. And also have a basic understanding of social and natural environment. He/she should possess very good interpersonal skills, especially sensitivity to women in the household.

Job Details	Qualifications Pack Code	SGJ/Q2101		
	Job Role	Improved Cookstove Installer This job role is applicable in both national and international scenarios		
	Credits(NSQF)	TBD	Version number	1.0
	Sector	Green Jobs	Drafted on	11/04/2016
	Sub-sector	Renewable Energy	Last reviewed on	27/06/2016
	Occupation	Installer	Next review date	01/06/2019
	NSQC Clearance on	N.A		

Job Role	IMPROVED COOKSTOVE INSTALLER
Role Description	Improved Cookstove installer specializes in construction of cookstove as per standard mould(s) and installation at appropriate site.
NSQF level	4
Minimum Educational Qualifications	5 th Pass Preferably
Maximum Educational Qualifications	Not Applicable.
Training (Suggested but not mandatory)	
Minimum Job Entry Age	18 years.
Experience	Not Required.
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <p>SGJ/N2101: Collection of Materials and Preparation of Appropriate Mixture</p> <p>SGJ/N2102: Construction of Improved Cookstove</p> <p>SGJ/N2103: Installation and Demonstration of Improved Cookstove</p> <p>SGJ/N2104: Health and Work Safety while Construction and Installation of Improved Cookstove</p> <p>SGJ/N2112: Entrepreneurship in Installation of Improved Cookstove</p> <p>Optional: Not Applicable.</p>
Performance Criteria	As described in the relevant OS units.

Keywords/Term	Description
Definitions	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	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.
Improved Cookstove	Improved Cookstove is one of the clean cooking energy devices which uses biomass as fuel and having higher efficiency and lower emissions as compared to traditional biomass cookstoves. This Improved Cookstove is also known as “Unnat Chuha”

National Occupational Standard



Overview

This unit is about understanding of collection of materials and preparation of mixture which is being used for making fixed type Improved Cookstoves.

SGJ/ N 2101 Collection of Materials and Preparation of Appropriate Mixture

National Occupational Standard

Unit Code	SGJ / N2101
Unit Title (Task)	Collection of Materials and Preparation of Appropriate Mixture
Description	This unit is about collection of materials and preparation of appropriate mixture which is being used for making fixed type improved cookstoves
Scope	This unit/task covers the following: <ul style="list-style-type: none"> • Selection of materials and tools • Collection and storage of materials • Preparation of appropriate mixture
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Selection of materials and tools	To be competent, the user/ individual must be able to: PC1. Select the location from where the required quality clay will be dug/obtained PC2. Select the location from where appropriate sand will be obtained PC3. Arrange the tools use for clay digging and sieving of sand i.e. shovel, sieve, trowel, wire-mesh PC4. Check the appropriateness of tools
Collection and storage of materials	PC5. Identify the area where clay & sand will be collected and stored PC6. Arrange the mould, paddles, bucket and other necessary items at the collection area PC7. Collect the small pieces of dug clay
Preparation of appropriate mixture	PC8. Obtain the clay PC9. Dry up the dug/obtained clay PC10. Break the dug/obtained clay into small pieces PC11. Sieve the sand using wire mesh to remove the large stones PC12. Prepare appropriate mixture of clay & sand with water PC13. Ensure water penetration in the clay mixture PC14. Obtain a homogenous mixture with no air pockets PC15. Cure the clay and ensure proper storage
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. Organization culture and set up KA2. Organization documentation required if any
B. Technical C. Knowledge	The individual on the job needs to know and understand the following aspects: KB1. Definition of terms: Improved Cookstove, measuring tape, shovel, sieve, efficiency and emission KB2. Different types of clays & its properties KB3. Different sites from where clay could be dug KB4. Different sources from where clay and sand could be obtained KB5. Handling equipments which are being used in digging and mixture preparation KB6. Correct ratio of clay and sand in order to avoid the clay from shrinking, causing the cracking of liners during drying and firing and or breakdown within a short time of use KB7. Kneading, Squeezing and rolling of mixture KB8. Curing of clay

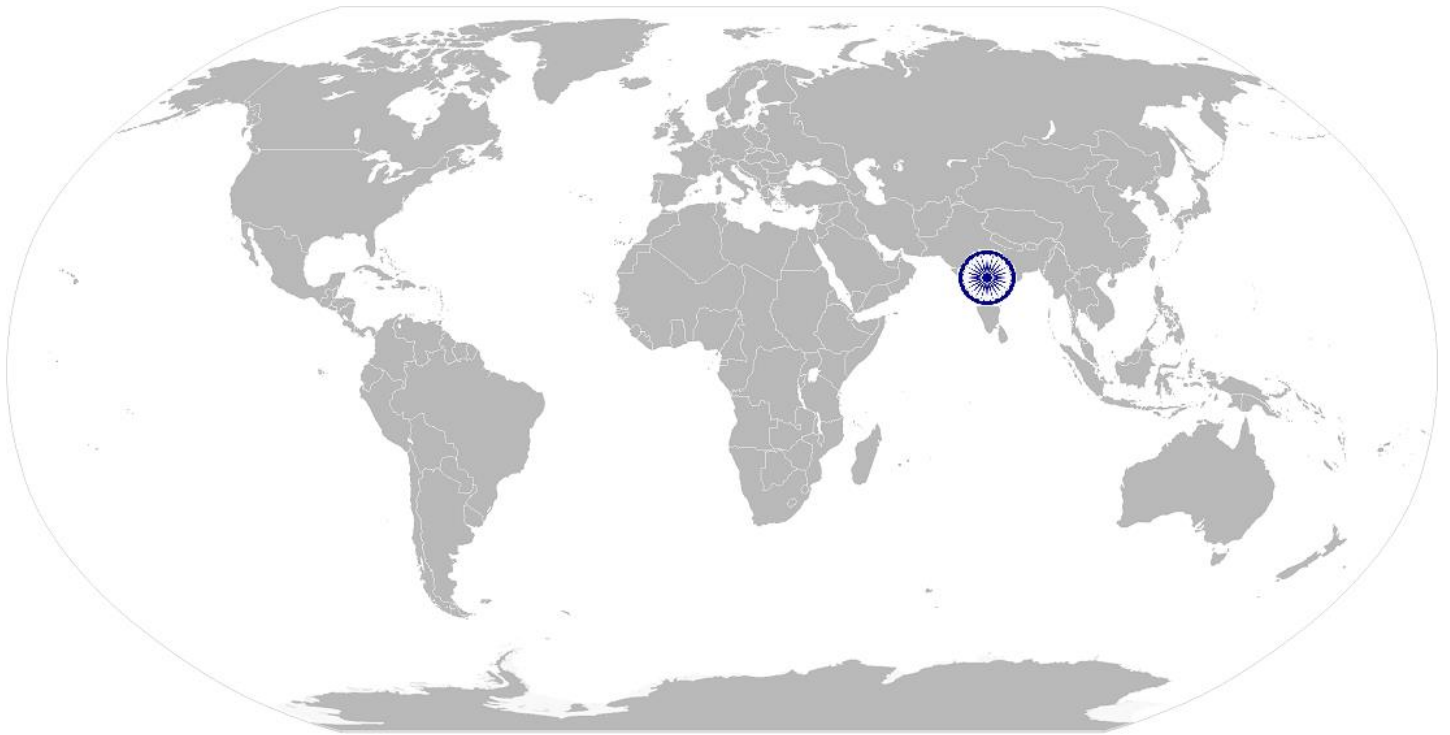
SGJ/ N 2101 Collection of Materials and Preparation of Appropriate Mixture

Skills	
A. Core Skills / Generic Skills	Writing 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/local language SA3. Understand manuals, health and safety instructions SA4. Understand the working of various tools
	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 others can hear and understand SA6. Participate in and understand discussions SA7. Respond appropriately to any queries
	B. Professional Skills
Decision Making	
The user/individual on the job needs to know and understand how to: SB1. Location of material SB2. Quality and readiness of clay SB3. Appropriateness of mixture	
Plan 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.	
Customer Centricity	
The user/individual on the job needs to know and understand how to: SB6. Follow 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	
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 fixed improved cookstove	
Critical Thinking	
N.A	

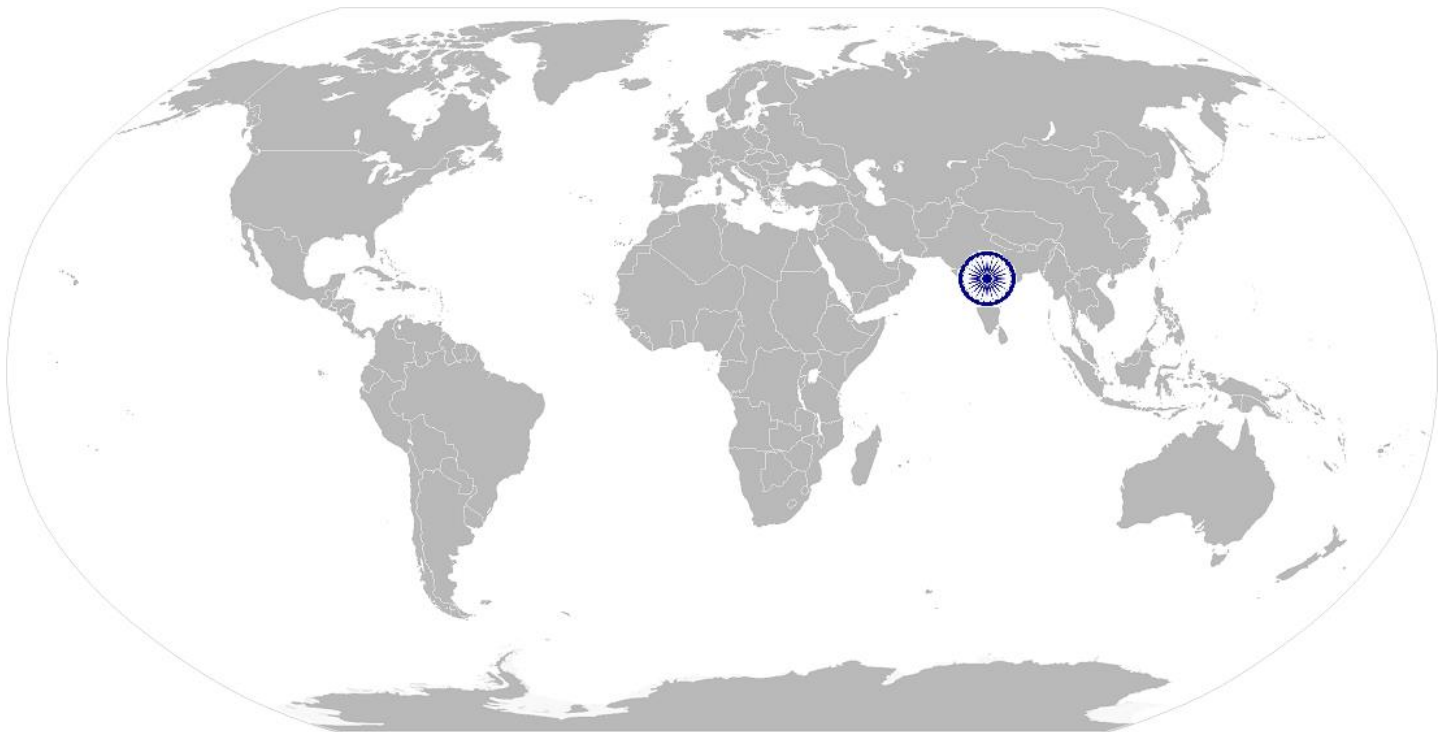
SGJ/ N 2101 Collection of Materials and Preparation of Appropriate Mixture

NOS Version Control

NOS Code	SGJ/N2101		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	11/04/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	17/11/2016
Occupation	Installer	Next review date	01/06/2019



National Occupational Standard



Overview

This unit is about steps involved in construction of fixed type Improved Cookstove.

SGJ/ N 2102

Construction of Improved Cookstove

National Occupational Standard

Unit Code	SGJ / N2102
Unit Title (Task)	Construction of Improved Cookstove
Description	This unit is about steps involved in construction of fixed type Improved Cookstove.
Scope	This unit/task covers the following: <ul style="list-style-type: none"> • Moulding the liner • Finishing the liner
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Moulding the liner	PC1. Prepare the mould PC2. Knead the block of clay against the mould board PC3. Prepare two slab of clay on the moulding board PC4. Insert the first slab inside the mould and then repeat with second PC5. Seal the seam PC6. Position the paddle inside the mould and remove excess clay PC7. Remove the mould from the liner
Finishing the liner	PC8. Make a firewood access opening PC9. Properly mark the pot rest position PC10. Prepare pot rest by pressing a chunk of clay into the pot rest mould PC11. Attach the pot rest with the liner PC12. Smoothen the side of the stove PC13. Dry up the liner for 2-3 days slowly PC14. Fire the liner in kiln to strengthen the liner
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: <ul style="list-style-type: none"> KA1. Organization culture & set up. KA2. Organization documentation required if any.
B. Technical Knowledge	The individual on the job needs to know and understand the following aspects: <ul style="list-style-type: none"> KB1. Basic concept of clay, sand and its property KB2. Wiping the base plate & inside the mould using wet cloths & sprinkle fine ash to ensure the wet liner does not stick KB3. How to mould a liner KB4. Basic knowledge of mathematics and calculation KB5. What is paddle and how to use it KB6. Remove the paddle gently from the mould KB7. Equal distance from each pot rest to ensure the stability of cooking pot KB8. Importance of firing KB9. Importance & time required for drying KB10. Determine the proper size for the firewood access opening

SGJ/ N 2102

Construction of Improved Cookstove

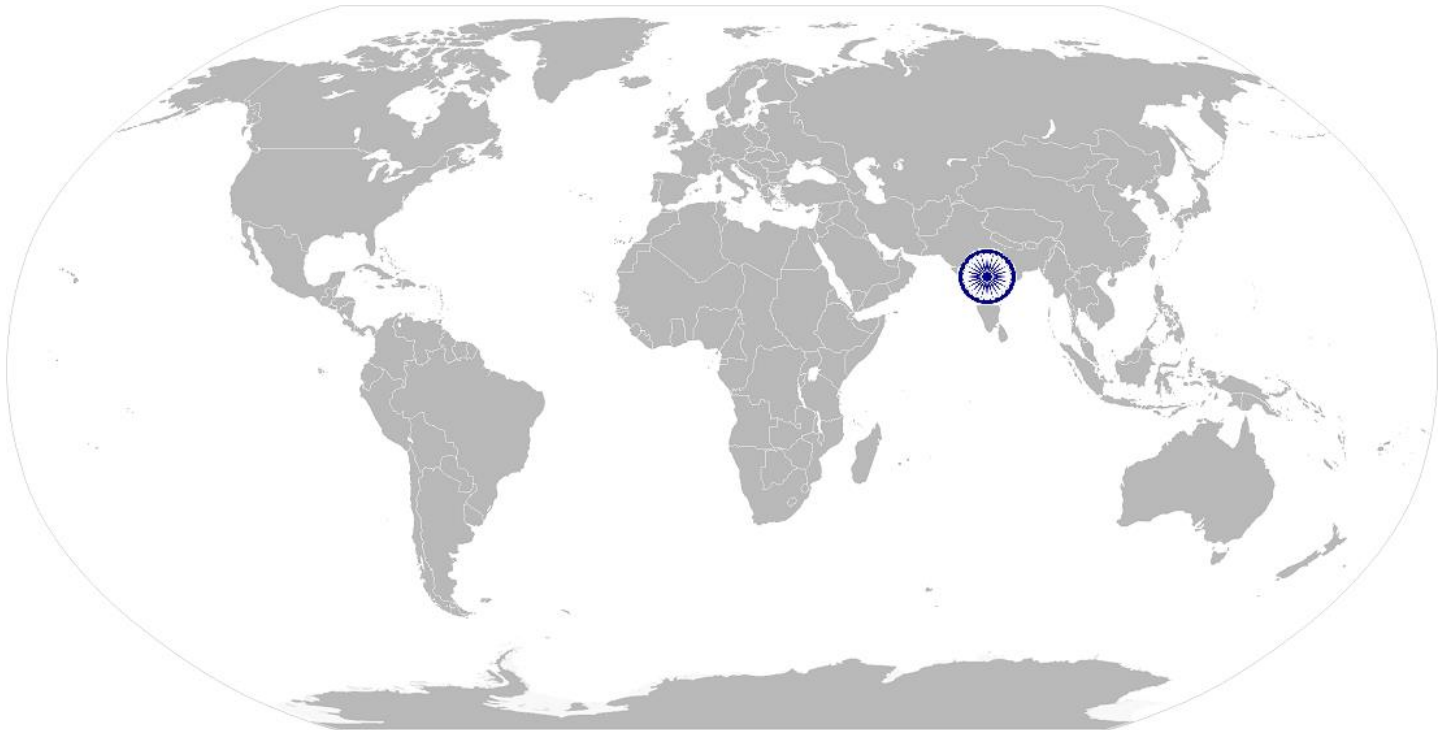
Skills	
A. Core Skills / Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. Fill up documentation applicable to one's role
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. Read vernacular/local language SA3. Read and understand manuals, health and safety instructions SA4. Understand the working of various tools
	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 others can hear and understand SA6. Participate in and understand discussions SA7. Respond appropriately to any queries
	B. Professional Skills
Decision Making	
The user/individual on the job needs to know and understand how to: SB1. Quality and readiness of liner	
Plan and Organize	
The user/individual on the job needs to know and understand how to: SB2. Planning and organization of work to meet deadlines SB3. Work constructively and collaboratively with others	
Customer Centricity	
The user/individual on the job needs to know and understand how to: SB4. Follow code of conduct SB5. 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: SB6. Recognize problems and search for solutions SB7. 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, observation to select course of action to perform tasks related to fixed improved cookstove	
Critical Thinking	
N.A	

SGJ/ N 2102

Construction of Improved Cookstove

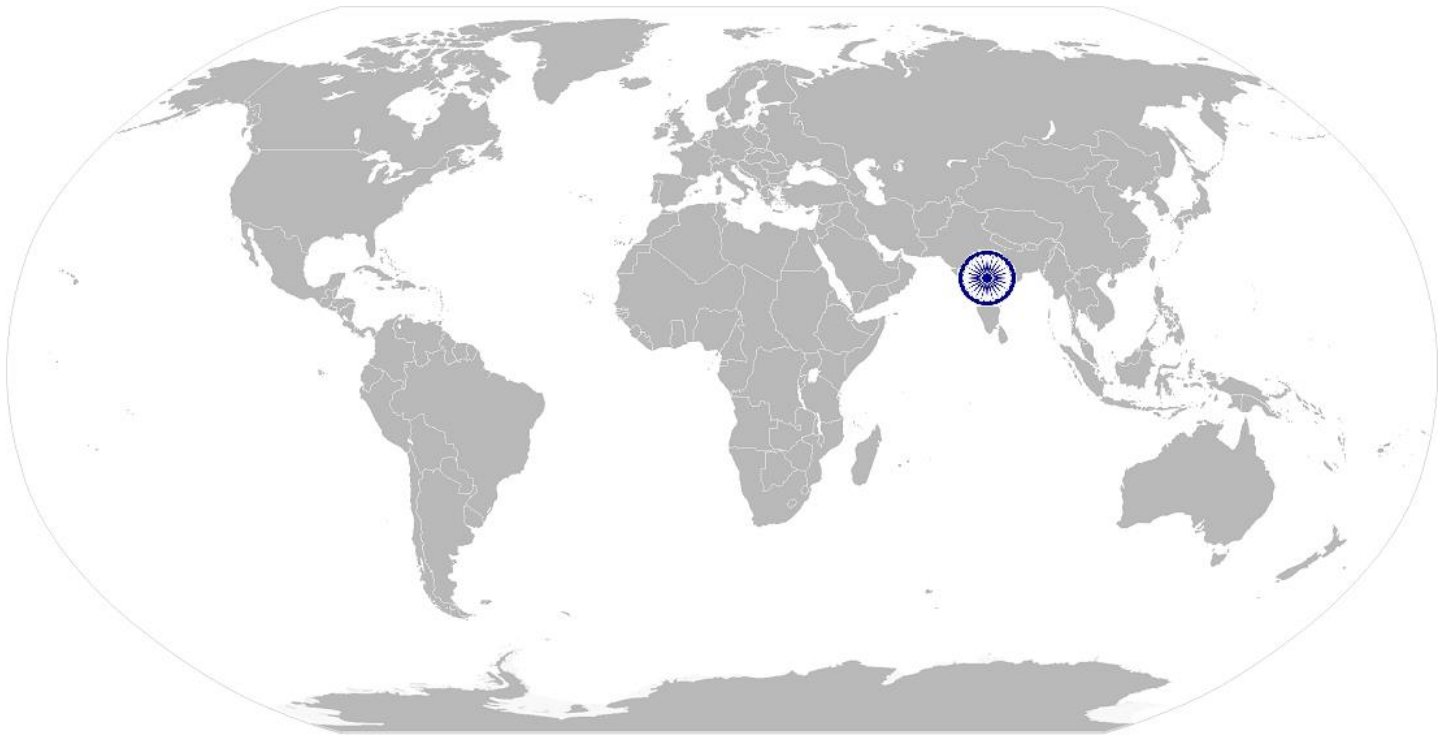
NOS Version Control

NOS Code	SGJ/N2102		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	11/04/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	17/11/2016
Occupation	Installer	Next review date	01/06/2019





National Occupational Standard



Overview

This unit is about Installation at the appropriate site and demonstration of the Improved Cookstove.

SGJ/ N 2103

Installation and Demonstration of Improved Cookstove

National Occupational Standard

Unit Code	SGJ / N2103
Unit Title (Task)	Installation and Demonstration of Improved Cookstove
Description	This unit is about installation at the appropriate site and demonstration of the Improved Cookstove.
Scope	<p>This OS unit/task covers the following:</p> <ul style="list-style-type: none"> • Selection of appropriate site for installation/user location • Installation of Improved Cookstove at the appropriate site • Demonstration of function of Improved Cookstove
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Selection of appropriate site for installation/user location	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Assess the site for ventilation and proper air circulation PC2. Finalize the spot where mould will be installed PC3. Mark and scale the final spot</p>
Installation of Improved Cookstove at the appropriate site	<p>PC4. Arrange & check the tools required for installation PC5. Dig the spot according to marking and scaling using tools PC6. Lay bricks on the spot PC7. Install the clay mould on the spot PC8. Finish the installation PC9. Dry up the installation</p>
Demonstration of function of Improved Cookstove	<p>PC10. Demonstrate proper placement and lighting of fuel PC11. Put water pot on the pot rest which need to be heated up PC12. Remove the pot from the cookstove when the water is boiled PC13. Demonstrate handling of hot pot safely PC14. Remove the excess firewood from the fire opening of the cookstove PC15. Demonstrate cooling off the cookstove</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company/ organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. Organization culture & set up KA2. Organization documentation required if any</p>
B. Technical Knowledge	<p>KB1. Handling of tools required for installation KB2. Basic knowledge of mathematics and calculation KB3. Different types of fuels and designs KB4. Amount of fuel required for cooking KB5. Proper firing of the fuel KB6. Optimizing the cookstove with respect to emission KB7. Putting the pot on pot rest properly</p>
Skill(s)	
A. Core Skills/ Generic Skills	Writing skills
	<p>The individual on the job needs to know and understand:</p> <p>SA1. Fill up documentation applicable to one's role</p>

SGJ/ N 2103

Installation and Demonstration of Improved Cookstove

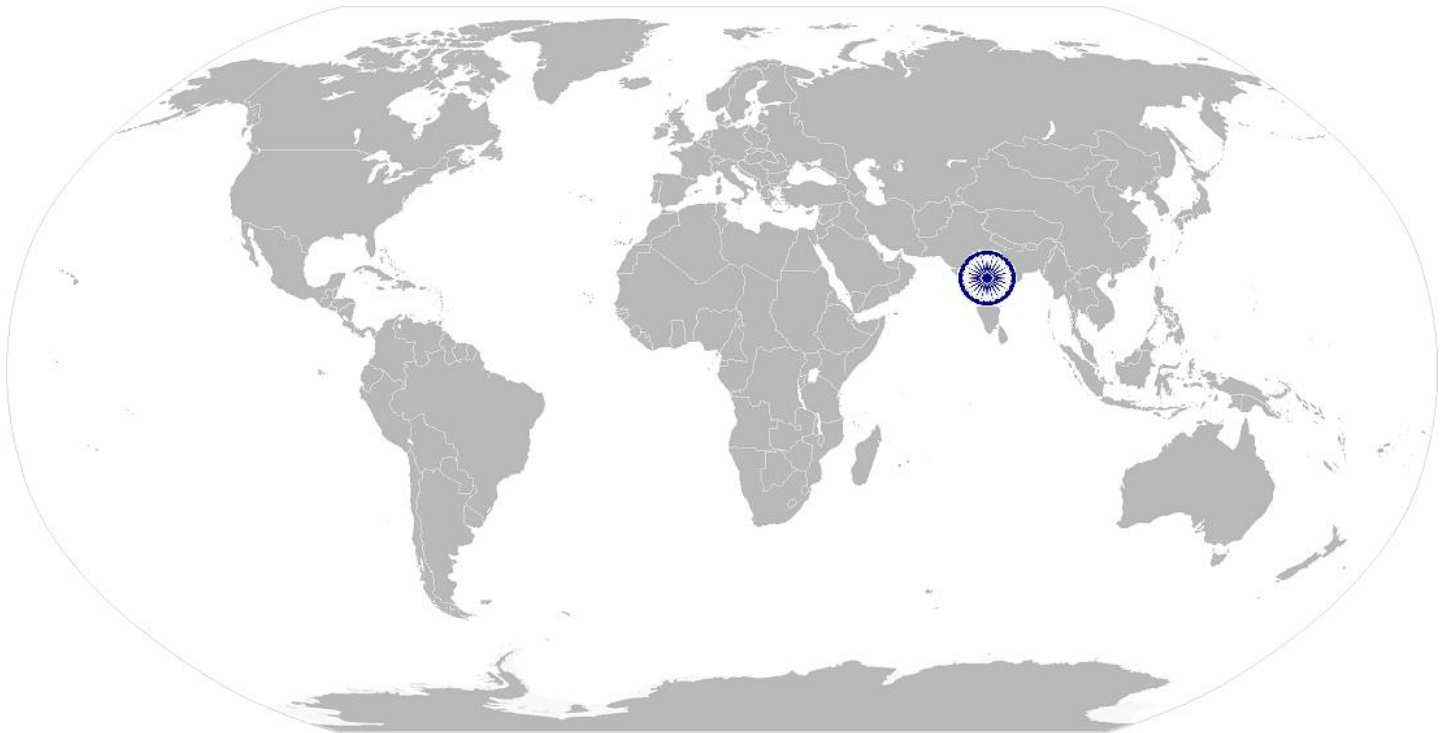
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. Read vernacular/local language SA3. Read and understand manuals, health and safety instructions SA4. Understand the working of various tools
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. Express statements or information clearly so that others can hear and understand SA6. Participate in and understand discussions SA7. Respond appropriately to any queries
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. Quality and readiness of liner
	Plan and Organize
	The user/individual on the job needs to know and understand how to: SB2. Planning and organization of work to meet deadlines SB3. Work constructively and collaboratively with others
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. Follow code of conduct SB5. 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: SB6. Recognize problems and search for solutions SB7. Choose best methods to complete assigned tasks
	Analytical Thinking
SB8. Apply domain knowledge, observation to select course of action to perform tasks related to fixed improved cookstove	
	Critical Thinking
	N.A

SGJ/ N 2103

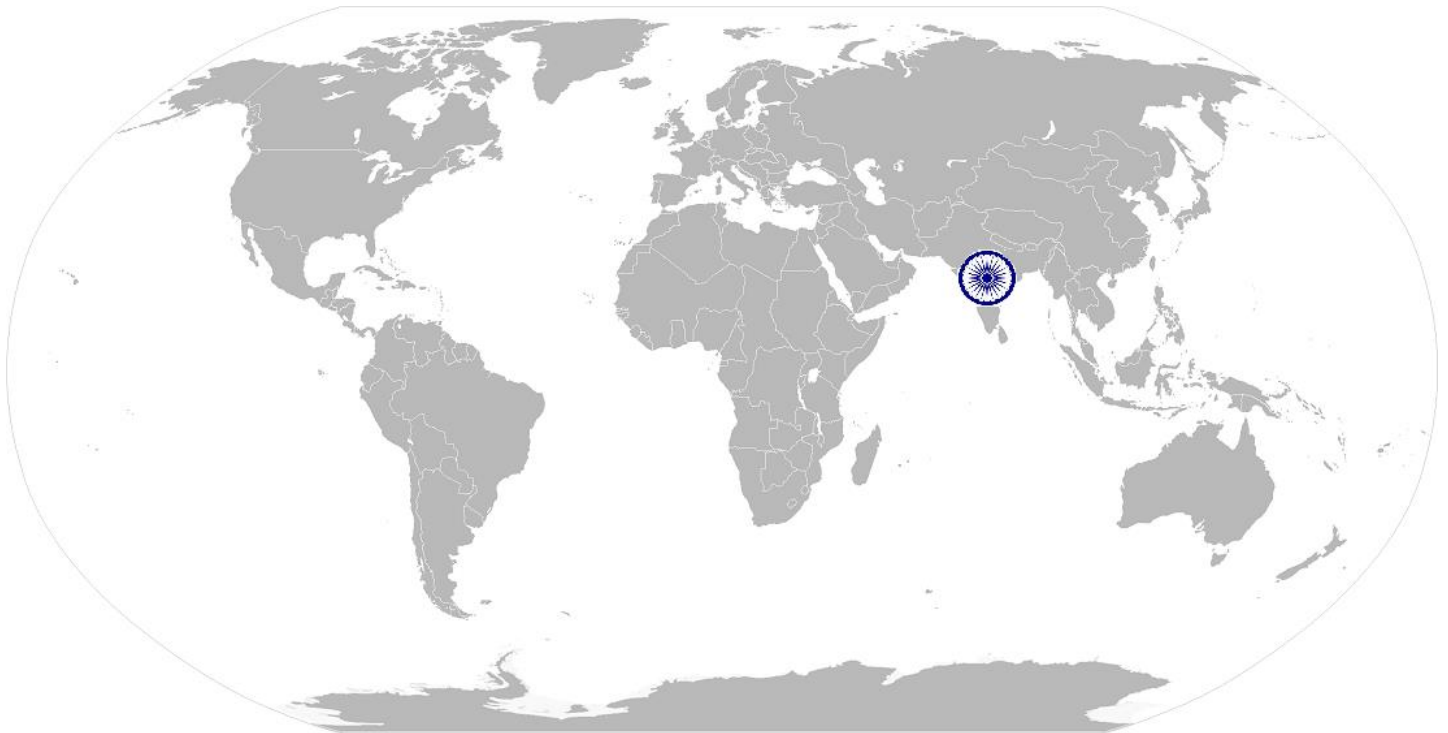
Installation and Demonstration of Improved Cookstove

NOS Version Control

NOS Code	SGJ/N2103		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	18/04/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	17/11/2016
Occupation	Installer	Next review date	01/06/2019



National Occupational Standard



Overview

This unit is about maintaining work safety while constructing and installing the Improved Cookstove.

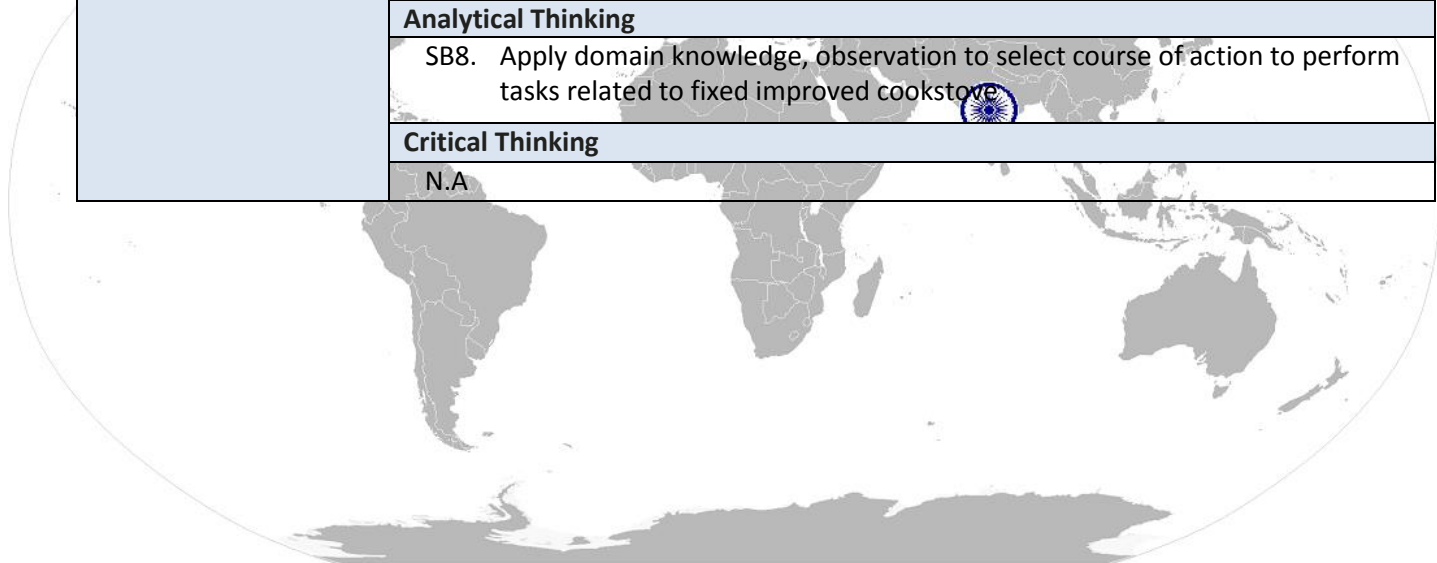
SGJ/ N2104 Health and Work Safety while Construction and Installation of Improved Cookstove

National Occupational Standard	Unit Code	SGJ / N2104
	Unit Title (Task)	Health and Work Safety while Construction and Installation of Improved Cookstove
	Description	This unit is about maintaining work safety while constructing and installing the Improved Cookstove
	Scope	This OS unit/task covers the following: <ul style="list-style-type: none"> Work safety while construction of Improved Cookstove Work safety while installation of Improved Cookstove
	Performance Criteria(PC) w.r.t. the Scope	
	Element	Performance Criteria
	Work safety while construction of Improved Cookstove	To be competent, the user/individual on the job must be able to: <ul style="list-style-type: none"> PC1. Identify hazards while collection of raw materials PC2. Safely handle the tools used for collection PC3. Demonstrate the use of personal protective equipments(PPE) PC4. Ensure proper hygiene
	Work safety while installation of Improved Cookstove	<ul style="list-style-type: none"> PC5. Demonstrate the standard safety operation while installing the Improved Cookstove PC6. Properly light up the fuel PC7. Handle the hot pot carefully PC8. Proper removal of fuel from the fuel opening
	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: <ul style="list-style-type: none"> KA1. Organization culture and set up KA2. Organization documentation required if any
B. Technical Knowledge	<ul style="list-style-type: none"> KB1. Importance of PPE KB2. Use and area of application of PPE KB3. Standard safety operating procedures while collecting, storing, constructing and installing of Improved Cookstove KB4. Use of First Aid Kit 	
Skill(s)		
A. Core Skills/Generic Skills	Writing skills	The individual on the job needs to know and understand: <ul style="list-style-type: none"> SA1. Fill up documentation applicable to one's role
	Reading Skills	The user/individual on the job needs to know and understand how to: <ul style="list-style-type: none"> SA2. Read vernacular/local language SA3. Read and understand manuals, health and safety instructions SA4. Understand the working of various tools
	Oral Communication (Listening and Speaking skills)	



SGJ/ N2104 Health and Work Safety while Construction and Installation of Improved Cookstove

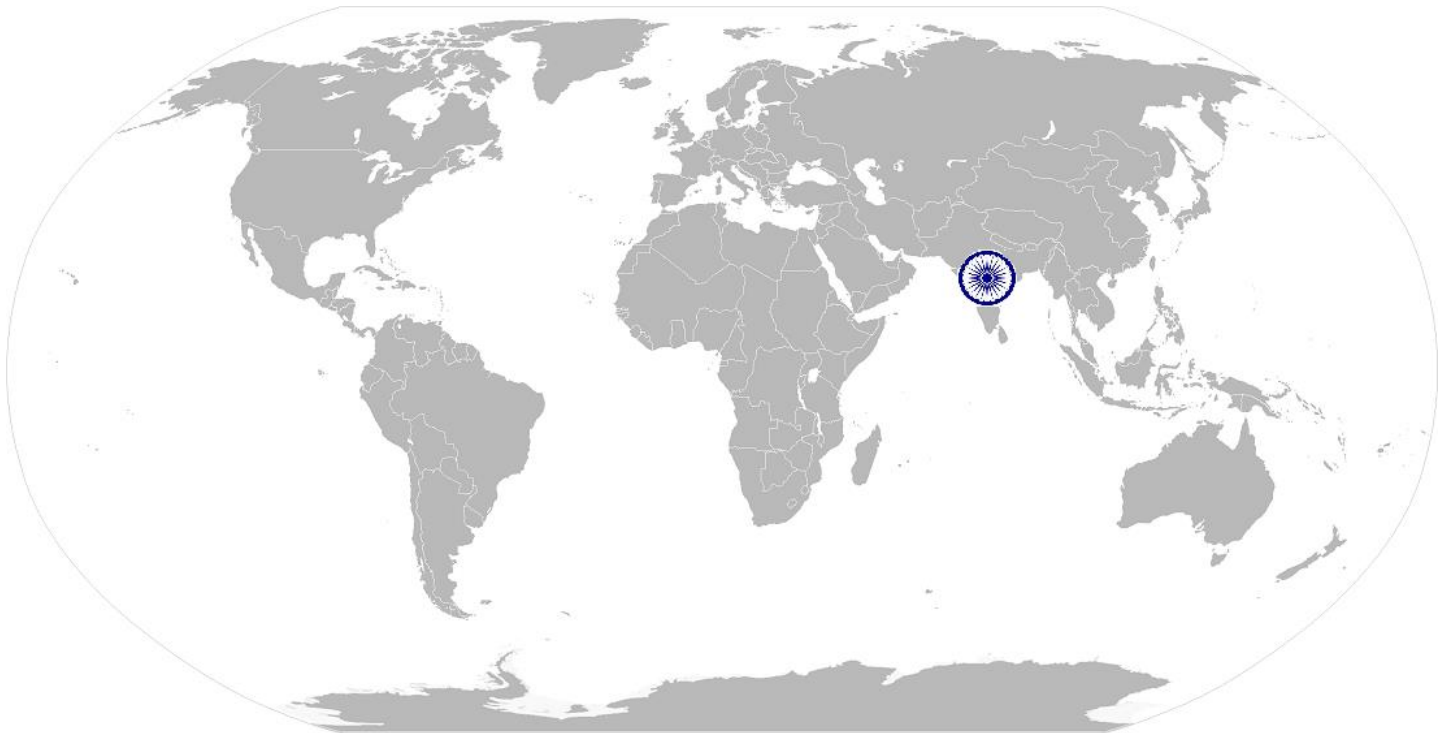
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA5. Express statements or information clearly so that others can hear and understand</p> <p>SA6. Participate in and understand discussions</p> <p>SA7. Respond appropriately to any queries</p>
B. Professional Skills	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. Quality and readiness of liner</p>
	Plan and Organize
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB2. Planning and organization of work to meet deadlines</p> <p>SB3. Work constructively and collaboratively with others</p>
	Customer Centricity
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB4. Follow code of conduct</p> <p>SB5. Manage relationships with customers with intent on satisfying its requirements for service delivery</p>
	Problem Solving
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. Recognize problems and search for solutions</p> <p>SB7. Choose best methods to complete assigned tasks</p>
	Analytical Thinking
	<p>SB8. Apply domain knowledge, observation to select course of action to perform tasks related to fixed improved cookstove</p>
Critical Thinking	
N.A	



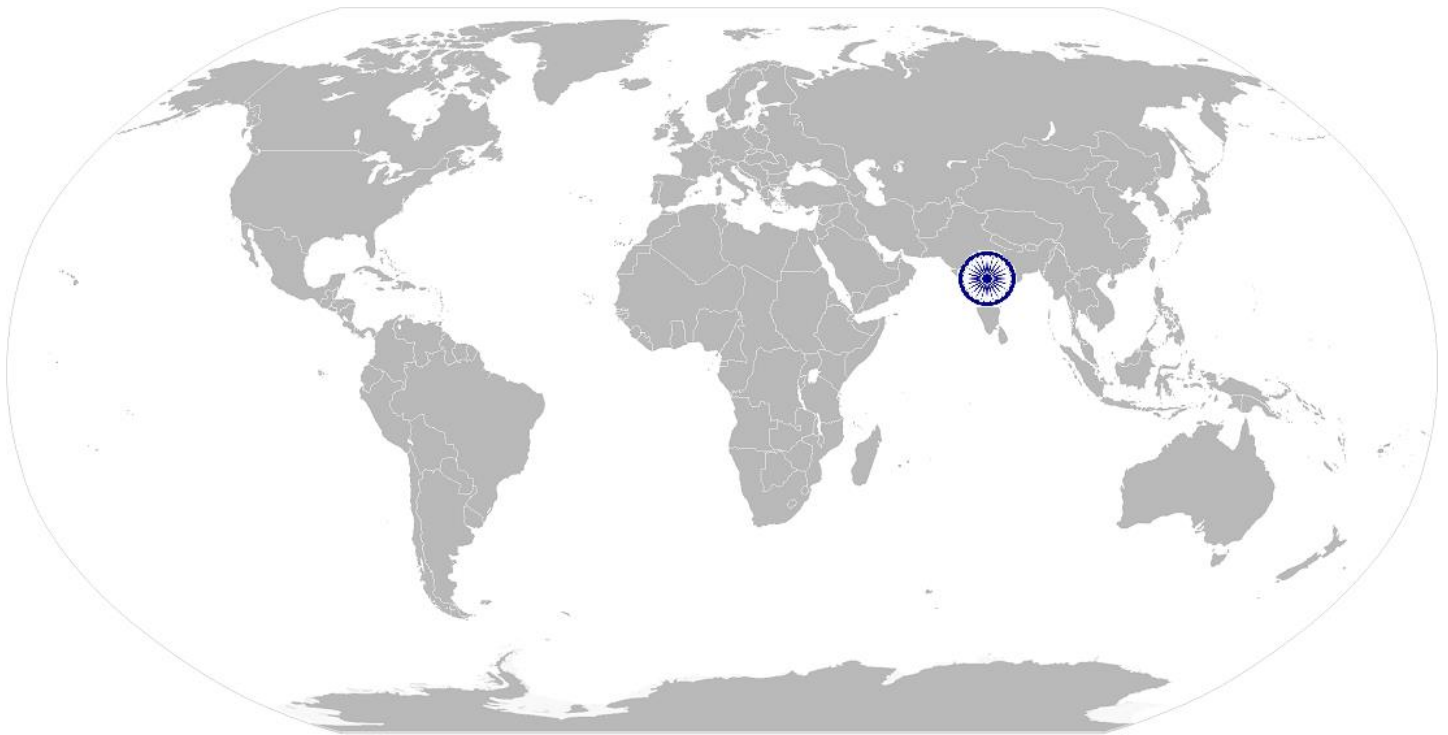
SGJ/ N2104 Health and Work Safety while Construction and Installation of Improved Cookstove

NOS Version Control

NOS Code	SGJ/N2104		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	18/04/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	17/11/2016
Occupation	Health & Safety	Next review date	01/06/2019



National Occupational Standard



Overview

This unit is about Entrepreneurship in installation of fixed type Improved Cookstove.

SGJ/ N2112 Entrepreneurship in Installation of Improved Cookstove

National Occupational Standard	Unit Code	SGJ / N2112
	Unit Title (Task)	Entrepreneurship in Installation of Improved Cookstove
	Description	This unit is about Entrepreneurship in installation of fixed type Improved Cookstove
	Scope	<p>This OS unit/task covers the following:</p> <ul style="list-style-type: none"> • Understand the fixed type Improved Cookstove business • Survey the area for getting clients for installation of Improved Cookstove • Cost and profit in Installation of Improved Cookstove • Client communication and retention for installing cookstove
	Performance Criteria(PC) w.r.t. the Scope	
	Element	Performance Criteria
	Understand the fixed type Improved Cookstove business	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Identify the value chain of the fixed type Improve Cookstove business</p> <p>PC2. Estimate the earnings from the business venture</p> <p>PC3. Identify the risks associated in starting up a new venture</p>
	Survey the area for getting clients for installation of Improved Cookstove	<p>PC4. Identify the clients/households by carrying out the Survey of the area</p> <p>PC5. Assess the Quantity of Improved Cookstove need to be installed</p> <p>PC6. Identify & analyze the competitors in the area</p>
	Cost and profit in Installation of Improved Cookstove	<p>PC7. Ascertain various prices of different materials required for fabrication and installation of Improved Cookstove</p> <p>PC8. Choose the vendor to maximize profit</p> <p>PC9. Calculate the Trade margin</p>
	Client Communication and retention for installing cookstove	<p>PC10. Establish cordial relations with various clients and vendor</p> <p>PC11. Maintain telephone numbers of all the clients and vendor in the specified area</p> <p>PC12. Confirm availability of client prior to the visit</p> <p>PC13. Maintain competitive price after ascertaining a reasonable profit</p> <p>PC14. Should keep book for the day, week or month for all the transactions</p>
Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the company/ organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. Organization culture and set up if any</p> <p>KA2. Organization documentation required if any</p>	
B. Technical Knowledge	<p>KB1. Materials required for installation of Improved Cookstove</p> <p>KB2. Standard safety operating procedures while collecting, storing, constructing and installing of Improved Cookstove</p> <p>KB3. Updated prices of the materials required for installing cookstove</p>	

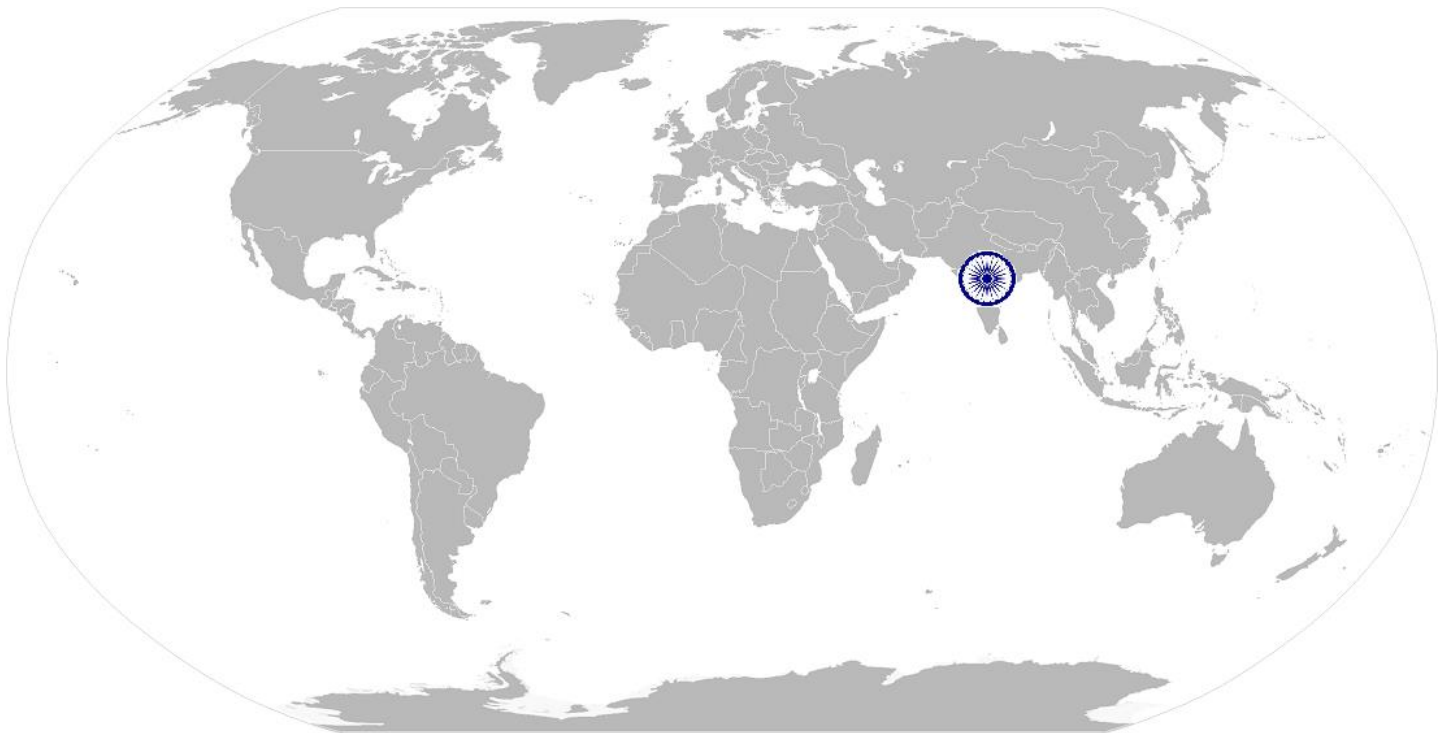
SGJ/ N2112 Entrepreneurship in Installation of Improved Cookstove

Skill(s)	
A. Core Skills / Generic Skills	Writing skills
	The individual on the job needs to know and understand: 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/local language SA3. Ability to read from various source
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA4. Express statements or information clearly so that others can hear and understand SA5. Participate in and understand discussions SA6. Respond appropriately to any queries
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. To whom he/she should purchase materials
	Plan and Organize
	The user/individual on the job needs to know and understand how to: SB2. Planning and organization of work to meet deadlines SB3. Work constructively and collaboratively with others
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. Follow code of conduct SB5. 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: SB6. Recognize problems and search for solutions SB7. Choose best methods to complete assigned tasks
	Analytical Thinking
SB8. - Apply domain knowledge, observation to select course of action to perform tasks related to fixed improved cookstove	
Critical Thinking	
SB9. Ask question for better understanding	

SGJ/ N2112 Entrepreneurship in Installation of Improved Cookstove

NOS Version Control

NOS Code	SGJ/N2112		
Credits (NSQF)	TBD	Version number	1.0
Industry Sector	Green Jobs	Drafted on	20/10/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	20/10/2016
Occupation	Improved Cookstove Entrepreneur	Next review date	01/06/2019



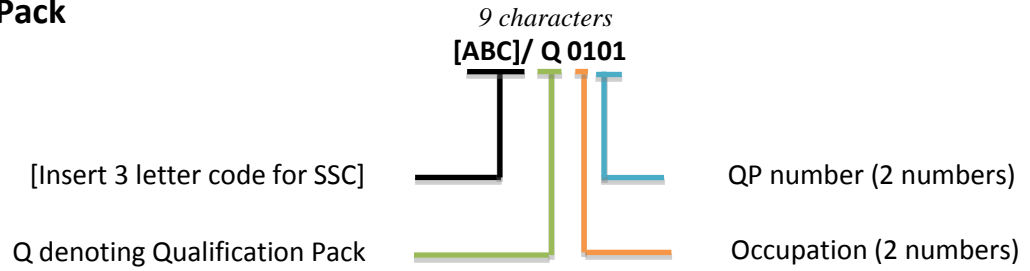
SGJ/ Q 2101

Qualification Pack for “Improved Cookstove Installer”

Annexure

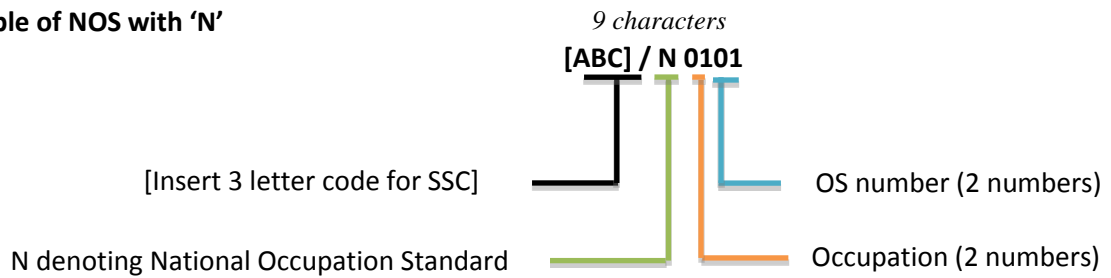
Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard

An example of NOS with ‘N’



[Back to top...](#)

SGJ/ Q 2101

Qualification Pack for “Improved Cookstove Installer”

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

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 QP or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01

SGJ/ Q 2101

Qualification Pack for “Improved Cookstove Installer”

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Improved Cookstove Installer

Qualification Pack SGJ/Q2101

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. 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

NOS	Performance Criteria	Marks Allocation			
		Total Mark	Out Of	Theory	Skills Practical
SGJ/N2101: Collection of Materials & Preparation of Appropriate Mixture	PC1. Select the location from where the required quality clay will be dug/obtained.	40	2	1	1
	PC2. Select the location from where appropriate sand will be obtained.		2	1	1
	PC3. Arrange the tools use for clay digging and sieving of sand i.e. shovel, sieve, trowel, wire-mesh.		2	1	1
	PC4. Check the appropriateness of tools.		2	1	1
	PC5. Identify the area where clay & sand will be collected and stored.		2	1	1
	PC6. Arrange the mould, paddles, bucket and other necessary items at the collection area.		2	1	1
	PC7. Collect the small pieces of dug clay.		2	1	1
	PC8. Obtain the clay.		2	1	1
	PC9. Dry up the dug/obtained clay.		2	1	1
	PC10. Break the dug/obtained clay into small pieces.		2	1	1
	PC11. Sieve the sand using wire mesh to remove the large stones.		4	2	2
	PC12. Prepare appropriate mixture of clay & sand with water.		4	2	2
	PC13. Ensure water penetration in the clay mixture.		4	2	2
	PC14. Obtain a homogenous mixture with no air pockets.		4	2	2
	PC15. Cure the clay and ensure proper storage.		4	2	2
	TOTAL	40	20	20	
SGJ/N2102:	PC1.Prepare the mould.		4	2	2



SGJ/ Q 2101 Qualification Pack for “Improved Cookstove Installer”

Construction of Improved Cookstove	PC2.Knead the block of clay against the mould board.	40	2	1	1
	PC3.Prepare two slab of clay on the moulding board.		4	2	2
	PC4.Insert the first slab inside the mould and then repeat with second.		4	2	2
	PC5.Seal the seam.		2	1	1
	PC6.Position the paddle inside the mould and remove excess clay.		2	1	1
	PC7.Remove the mould from the liner.		2	1	1
	PC8.Make a firewood access opening.		4	2	2
	PC9.Properly mark the pot rest position.		3	2	1
	PC10.Prepare pot rest by pressing a chunk of clay into the pot rest mould.		3	1	2
	PC11.Attach the pot rest with the liner.		2	1	1
	PC12.Smoothen the side of the stove.		3	2	1
	PC13.Dry up the liner for 2-3 days slowly.		2	1	1
	PC14.Fire the liner in kiln to strengthen the liner.		3	1	2
			TOTAL	40	20
SGJ/N2103: Installation and Demonstration of the Improved Cookstove	PC1.Assess the site for ventilation and proper air circulation.	50	3	2	1
	PC2.Finalize the spot where mould will be installed.		4	2	2
	PC3.Mark and scale the final spot		3	1	2
	PC4.Arrange & check the tools required for installation.		3	1	2
	PC5. Dig the spot according to marking and scaling using tools.		4	2	2
	PC6.Lay bricks on the spot.		3	2	1
	PC7.Install the clay mould on the spot.		3	1	2
	PC8. Finish the installation.		4	2	2
	PC9.Dry up the installation.		2	1	1
	PC10.Demonstrate proper placement and lighting of fuel.		4	2	2
	PC11.Put water pot on the pot rest which need to be heated up.		3	1	2
	PC12.Remove the pot from the cookstove when the water is boiled.		3	1	2
	PC13.Demonstrate handling of hot pot safely.		4	2	2
	PC14.Remove the excess firewood from the fire opening of the cookstove.		4	2	2
	PC15.Demonstrate cooling off the cookstove.		3	1	2
	TOTAL	50	23	27	
SGJ/N2104: Health and Work Safety while Construction and Installation of Improved Cookstove	PC1. Identify precautions to be observed while collection of raw materials.	20	2	1	1
	PC2. Ensure proper handling of the tools used for collection.		2	1	1
	PC3. Demonstrate the use of personal protective equipments(PPE).		5	2	3
	PC4. Ensure proper hygiene.		3	1	2

SGJ/ Q 2101 Qualification Pack for “Improved Cookstove Installer”

	PC5. Demonstrate the standard safety operation while installing the Improved Cookstove.		4	2	2
	PC6. Demonstrate safe removal of ash from the fuel opening.		4	2	2
		TOTAL	20	9	11
SCGJ/N2112: Entrepreneurship in Installation of Improved Cookstove	PC1. Identify the value chain of the fixed type Improve Cookstove business	50	3	1	2
	PC2. Estimate the earnings from the business venture		4	2	2
	PC3. Identify the risks associated in starting up a new venture		3	1	2
	PC4. Identify the clients/households by carrying out the Survey of the area		4	2	2
	PC5. Assess the Quantity of Improved Cookstove need to be installed		2	1	1
	PC6. Identify & analyze the competitors in the area		3	1	2
	PC7. Ascertain various prices of different materials required for fabrication and installation of Improved Cookstove		5	2	3
	PC8. Choose the vendor to maximize profit		4	2	2
	PC9. Calculate the Trade margin		5	2	3
	PC10. Establish cordial relations with various clients and vendor		5	2	3
	PC11. Maintain telephone numbers of all the clients and vendor in the specified area		3	1	2
	PC12. Confirm availability of client prior to the visit		2	1	1
	PC13. Maintain competitive price after ascertaining a reasonable profit		5	2	3
	PC14. Should keep book for the day, week or month for all the transactions		2	1	1
		TOTAL	50	21	29