

# Model Curriculum

## Improved Cookstove Installer

**SECTOR:** GREEN JOBS  
**SUB-SECTOR:** RENEWABLE ENERGY  
**OCCUPATION:** INSTALLER  
**REF ID:** SGJ/Q2101, V1.0  
**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: **'Improved Cookstove Installer'** OP No. **'SGJ/Q 2101 NSQF Level 4'**

Date of Issuance: **April 3<sup>rd</sup>, 2017**

Valid up to: **June 1<sup>st</sup>, 2019**

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

  
Authorised Signatory  
(Skill Council for Green Jobs)

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# Improved Cookstove Installer

## CURRICULUM / SYLLABUS

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

<b>Program Name</b>	<b>Improved Cookstove Installer</b>		
<b>Qualification Pack Name &amp; Reference ID. ID</b>	SGJ/Q2101, v1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	11 <sup>th</sup> January 2017
<b>Pre-requisites to Training</b>	5 <sup>th</sup> Pass Preferably		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• Carry out the site survey for installation of Improved Cookstove</li> <li>• Construct fixed type Improved Cookstove</li> <li>• Install and demonstrate working of Improved Cookstove</li> <li>• Maintain health and work safety while construction and installation of Improved Cookstove</li> <li>• Become an entrepreneur in installation of Improved Cookstove</li> </ul>		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Improved Cookstove Installer” Qualification Pack issued by “Skill Council for Green Jobs”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<b>Introduction to Improved Cookstove Installer</b> <b>Theory Duration</b> (hh:mm) 17:00 <b>Practical Duration</b> (hh:mm) 25:00 <b>Corresponding NOS Code</b> SGJ/N2101	<ul style="list-style-type: none"> <li>• Introduction to Improved Cookstove;</li> <li>• Definition of Improved Cookstove;</li> <li>• Basic concept of Improved Cookstove;</li> <li>• Advantages &amp; Health Benefits;</li> <li>• Types of Improved Cookstoves;</li> <li>• Comparison of Improved Cookstove and traditional cookstove;</li> <li>• Standards available for Improved Cookstove;</li> <li>• Understand the role of Improved Cookstove Installer and job opportunities;</li> <li>• Understand the advantages of doing this course;</li> <li>• Acquire basic skills of communication;</li> <li>• Acquire basic reading capabilities to enable reading of manual health and safety instructions;</li> </ul>	
2	<b>Introduction to fuels</b> <b>Theory Duration</b> (hh:mm) 06.00 <b>Practical Duration</b> (hh:mm) 06.00 <b>Corresponding NOS Code</b> SGJ/N2103	<ul style="list-style-type: none"> <li>• Composition of fuels;                             <ul style="list-style-type: none"> <li>- Woody Biomass;</li> <li>- Cow Dung;</li> <li>- Agri-residue;</li> <li>- Coconut waste;</li> </ul> </li> <li>• Combustion/how do fuels burn;                             <ul style="list-style-type: none"> <li>- Necessity of air for burning;</li> <li>- Air fuel ratio;</li> </ul> </li> </ul>	
3	<b>Efficiency and Emission</b> <b>Theory Duration</b> (hh:mm) 08:00 <b>Practical Duration</b> (hh:mm) 20:00 <b>Corresponding NOS Code</b> SGJ/Q2101, SGJ/Q2103,	<ul style="list-style-type: none"> <li>• Heat gained by the vessel;                             <ul style="list-style-type: none"> <li>- Large vessel Vs Small vessel;</li> <li>- Flat vessel Vs Round vessel;</li> </ul> </li> <li>• Heat lost through the stove body;                             <ul style="list-style-type: none"> <li>- Heat lost through the chimney pipe;</li> </ul> </li> <li>• Heat transfer efficiencies &amp; emissions;                             <ul style="list-style-type: none"> <li>- Maximizing heat transfer to the vessel;</li> <li>- Testing for efficiencies and emissions;</li> </ul> </li> </ul>	Weighing Balance, Measuring Cylinder/flusk, CO Measuring Device, vessel, spirit level, long pincer & utility tongs, thermometer with rubber stopper/temperature sensor.













	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
	<b>NOS Total Marks</b>	<b>TOTAL</b>	<b>50</b>	<b>23</b>	<b>27</b>
SGJ/N2104: Health and Work Safety while Construction and Installation of Improved Cookstove	PC1. Identify precautions to be observed while collection of raw materials.	<b>20</b>	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
	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
	<b>NOS Total Marks</b>	<b>TOTAL</b>	<b>20</b>	<b>9</b>	<b>11</b>
SCGJ/N2112: Entrepreneurship in Installation of Improved Cookstove	PC1. Identify the value chain of the fixed type Improve Cookstove business	<b>50</b>	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
	<b>NOS Total Marks</b>	<b>TOTAL</b>	<b>50</b>	<b>21</b>	<b>29</b>
	<b>QP Total Marks</b>	<b>TOTAL</b>	<b>200</b>		