

Model Curriculum

Biomass Depot Operator

SECTOR: GREEN JOBS
SUB-SECTOR: WASTE MANAGEMENT
OCCUPATION: SUPPLY CHAIN MANAGEMENT
REF ID: SGJ/Q6207, 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
MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: **'Biomass Depot Operator'**
QP No. **'SGJ/Q6207 NSQF Level 4'**

Date of Issuance: July 5th 2018
Valid up to*: May 26th 2020

**Valid up to the next review date of the Qualification Pack or the
'Valid up to' date mentioned above (whichever is earlier)*


Dr. Praveen Saxena
Authorised Signatory
(Skill Council for Green Jobs)

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Biomass Depot Operator

CURRICULUM / SYLLABUS

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

Program Name	Biomass Depot Operator		
Qualification Pack Name & Reference ID	SGJ/Q6207, V1.0		
Version No.	1.0	Version Update Date	05.07.2018
Pre-requisites to Training	10th Pass		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Collect agri-residues from farmers/suppliers • Conduct physical inspection and weighing of agri-residue bales • Perform de-baling and re-baling of low density agri-residue bales • Store and maintain agri-residue bale stocks • Maintain workplace health and safety 		

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> Identify and prepare suitable facilities for storage of agri-residue bales to avoid fire hazard Optimize utilization of space for stacking agri-residue bales Transfer densified agri-residue bales from baling area to the storage area Maintain quality, quantity and storage conditions to avoid putrefaction Develop delivery schedule to ensure timely transportation 	
4	<p>Maintain basic health and workplace safety</p> <p>Theory Duration (hh:mm) 02:00</p> <p>Practical Duration (hh:mm) 05:00</p> <p>Corresponding NOS Code SGJ/N6205</p>	<ul style="list-style-type: none"> Maintain proper hygiene and protection from dust and other infections Demonstrate transportation safety like use of indicators, avoid bulging of material, etc. Administer first aid and use of different ways and means to handle emergency situations like fire, natural disasters, riots, etc. Select methods to dispose off farm waste as per environmental safety Demonstrate use of Personal Protective Equipment (PPE) and check its availability at work place 	Safety Tool Kits (including gloves, mask, boots etc.), First Aid Kit
5	<p>Communication & Soft Skills</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 02:00</p> <p>Corresponding NOS Code Bridge Module</p>	<ul style="list-style-type: none"> Demonstrate verbal communication including response to complaints, clarification to queries, etc. Demonstrate non-verbal communication including facial expressions, tone and pitch of the voice, body language, etc. Instilling social etiquette Explain organization culture 	Posters, Marker, White Board, speakers
	<p>Total Duration: 72:00</p> <p>Theory Duration: 23:00</p> <p>Practical Duration 49:00</p>	<p>Unique Equipment Required:</p> <p>Pictorial charts, White Board, Marker, Projector, Speaker, illustrative Pictures, Computer, Internet Facility, Sickle, Demo Model of Baler, Safety Tool Kits (including gloves, mask, boots etc.), First Aid Kit,</p>	

Grand Total Course Duration: 72 Hours, 0 Minute

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

Compulsory NOS		Marks Allocation			
Total Marks: 130					
Assessment outcomes	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical
SGJ/N6227: Purchase agri-residue biomass from farmers / aggregators for stocking	PC1. set-up feed collection area to collect the stock from various suppliers (farmers)	50	7	3	4
	PC2. ensure efficient management of the inventories that are procured		6	3	3
	PC3. physical inspection of agri-residue bales (to check condition of bales whether wet or dry)		6	2	4
	PC4. weighing of low density agri-residue bales received from farmers/suppliers to determine quantity		5	2	3
	PC5. ensure acquisition of goods at best possible cost to w.r.t quality, quantity, time and location		6	2	4
	PC6. undertake payments to suppliers (farmers) after assessing quantity and quality of agri-residues		5	2	3
	PC7. shift bales to area demarcated for de-baling operations		5	2	3
	PC8. conduct stitching removal on the agri-residue bales		5	2	3
	PC9. transfer bales to drying section / binder section as per the nature or agri-residue bale stock		5	2	3
	TOTAL	50	20	30	
SGJ/N6228: Rebale to densify and store agri-residue bales	PC1. dry debaled agri-residue stock to adjust the moisture content in the range of 30–50%	40	5	2	3
	PC2. add moisturizing binder such as molasses if agri-residues dry in nature with less than 10% moisture content		5	2	3
	PC3. select appropriate baler as per the density requirement of the agri-residue bale stock		4	2	2
	PC4. conduct and coordinate agri-straw feeding, agri-residue baling and bale stitching		5	2	3
	PC5. identify proper area/facilities for storage of agri-residue bales		4	2	2
	PC6. transfer densified agri-residue bales from baling area to the storage area		4	2	2
	PC7. store agri-residue bales in controlled conditions away from direct exposure to environment elements like rain till transport		5	2	3
	PC8. maintain appropriate quantity of agri-residue bale stock		4	2	2

	PC9. ensure on time delivery of agri-residue bale stock to transportation area		4	2	2
		TOTAL	40	18	22
SGJ/N6205: Maintain basic health and workplace safety	PC1. keep workplace clean, organized and safe for work	40	5	2	3
	PC2. follow and comply with workplace and job specific safety procedures		5	2	3
	PC3. ensure no accidents and damages take place at the workplace		4	1	3
	PC4. ensure proper hygiene and protection from dust and other infections		4	1	3
	PC5. communicate workplace hazards and associated emergencies to workers		4	2	2
	PC6. organize and attend fire drills and workplace safety workshops		4	1	3
	PC7. administer basic first aid and be aware of evacuation and emergency procedures		5	2	3
	PC8. ensure that PPE's requirement are identified and made available at workplace at all time		4	1	3
	PC9. demonstrate safe and accepted practices for personal protection		5	2	3
			TOTAL	40	14