







Model Curriculum

Agri-residue Aggregator

SECTOR: GREEN JOBS

SUB-SECTOR: WASTE MANAGEMENT

OCCUPATION: SUPPLY CHAIN MANAGEMENT

REF ID: SGJ/Q6201, 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: 'Agri-residue Aggregator' QP No. 'SGJ/Q6201 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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Agri-residue Aggregator

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "<u>Agri-residue Aggregator</u>", in the "<u>Green Jobs</u>" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Agri-residue Aggregator			
Qualification Pack Name & Reference ID	SGJ/Q6201, V1.0			
Version No.	1.0	Version Update Date	05.07.2018	
Pre-requisites to Training	5th Pass			
Training Outcomes	 Assess market Identify supplied Set-up nodal postock Densify, pack a Identify best ma 	stock Densify, pack and store the agri residue bales Identify best market and sell agri-residue bales		









This course encompasses <u>5 out of 5</u> NOS (National Occupational Standards) of "<u>Agri-residue Aggregator</u>" Qualification Pack issued by "<u>Skill Council for Green Jobs</u>".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction to Agriresidue supply chain Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code Bridge Module	 Identify the problems of burning of agriresidue and need for developing biomass supply chain for various end utilizations Explain various steps of biomass supply chain for collection aggregation, transportation and storage Demonstrate the role of Agri-residue Aggregator in biomass supply chain and its progressive pathway 	Pictorial charts, White Board, Marker, Projector, illustrative pictures
2	Assess demand for agri-residues and coordinate with farmers Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code SGJ/N6201	 Identify methods of determining existing agri-residue market demands & trading system Demonstrate methods to build and maintain relationship with farmers and identify the needs for agri-residue Identify key stakeholders and method of negotiation with suppliers (farmers) for appropriate price and timely payment and demonstrate inventory management Outline the standard and quality of agriresidue as per the demand of the buyer 	Computer, Internet Facility, White Board, Marker, Projector
3	Setting up nodal points for procurement of agriresidues Theory Duration (hh:mm) 03:00 Practical Duration (hh:mm) 16:00 Corresponding NOS Code SGJ/N6202	 Demonstrate the method of identifying suitable area for setting up of collection points Illustrate the setting up of collection points to collect the stock from suppliers Identify method of coordinating with different collection points Identify and describe farming equipment, tools, logistic like tractors and trolleys required for collection of agri-residues 	Computer, Internet Facility, White Board, Marker, Projector
4	Densification and storing agri-residue bales	 Explain the concept of grading and sorting of agri-residues for moisture content and absence of thermal residues during densification Outline the checklist for functioning of baler before densification 	Demo model for collection and storage, Moisture Analyser, Temperature Sensor,









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration (hh:mm) 03:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code SGJ/N6203	 Explain the working of equipments to be operated Identify methods of densified bales collection and demonstrate the storage mechanism for densified bales Demonstrate packaging management & correct placement for transportation 	Weighing Machine, Gloves, tasla/shallow pan, Sickle
5	Selling and marketing of agri-residue bales Theory Duration (hh:mm) 03:00 Practical Duration (hh:mm) 07:00 Corresponding NOS Code SGJ/N6204	 Demonstrate the method of identifying appropriate buyers Identify market price and demonstrate best ways of attracting a remunerative price for agri-residues bales Demonstrate methods to build and maintain relationship with clients involved in agri-residue purchase & use Describe appropriate means of transportation based on location of departure, cost, quality, time constraints, safety, routing model etc. 	Routing model for transport
6	Maintain health and workplace safety Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 05:00 Corresponding NOS Code SGJ/N6205	 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 in accordance with 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
7	Communication & Soft Skills Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 02:00 Corresponding NOS Code Bridge Module	 Demonstrate verbal communication includes response on complaints, asking for clarification, etc. Demonstrate non-verbal communication includes facial expressions, the tone and pitch of the voice, gestures displayed through body language Instilling social etiquette Demonstrate organization culture 	Posters, Marker, White Board, speakers









Sr. No.	Module		Key Learning Outcomes	Equipment Required
	Total	Duration:	Unique Equipment Required:	
	72:00		Pictorial charts, White Board, Marker, Pro	
	Theory 22:00	Duration:	pictures, Computer, Internet Facility, Demo model for collections of the Computer of the Compu	
	Practical	Duration		
	50:00			

Grand Total Course Duration: 72 Hours, 0 Minute

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









Trainer Prerequisites for Job role: "Agri-residue Aggregator" mapped to Qualification Pack: "SGJ/Q6201, V1.0"

Sr. No.	Area	Details
1	Description	Agri-residue Aggregator collects agri-residues from farmers through nodal collection points, assesses quality and quantity of agri-residues and accordingly decides price. He/she appropriately sorts, densifies and stores the bales. He/she perform sales of the bales based on end requirements
2	Personal Attributes	Agri-residue Aggregator requires to concentrate on the job at hand and complete it meticulously in a safe manner. He / She must possess energy and strength for physical work. He / She must also demonstrate strong work ethics and an ability to communicate courteously with farmers, workers and customers
3	Minimum Educational Qualifications	10 th Pass
4a	Domain Certification	Certified for Job Role: "Agri-residue Aggregator" mapped to QP: "SGJ/Q6201, Version 1.0". Minimum accepted score as per SCGJ guidelines is 80%.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q0102" or equivalent. Minimum accepted score as per SSC guidelines is 80%.
5	Experience	Minimum 2 years of relevant experience









Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Agri-residue Aggregator
Qualification Pack	SGJ/Q6201, V1.0
Sector Skill Council	Green Jobs

Sr. No.	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









Total Marks: 200	Compulsory NOS	Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
SGJ/N6201: Assess demand for	PC1. assess the existing agri-residue market and trading system		5	2	3
agri-residues and coordinate with farmers	PC2.identify the type, quality and quantity of agri-residue stock requirement by coordinating with buyer		5	2	3
	PC3. outline the needs and conduct demand planning to coordinate with the suppliers (farmers)		7	3	4
	PC4.check with the farmers to know the harvesting time and to determine stock availability		4	2	2
	PC5. ensure that the suppliers will meet the quality standards set by the buyer	50	5	2	3
	PC6. communicate on regular basis with the supplier as well as the buyer		5	2	3
	PC7. undertake solving of any problems related to lack of stock in a period		3	1	2
	PC9. ensure a match between the demand and supply		5	2	3
	PC10. undertake continuity of supply		7	2	5
	PC11. provide accurate information on logistics and quality aspects of the stock		4	2	2
		TOTAL	50	20	30
SGJ/N6202: Set-up nodal points and	PC1.assess and identify the area where collection points may be set-up		5	2	3
procure agri- residues	PC2.undertake proper setup of collection points in different villages to collect the stock from various suppliers (farmers)		7	2	5
	PC3. coordinate with different collection points (if any)		3	1	2
	PC4.undertake acquisition of goods at best possible cost to w.r.t quality, quantity, time and location	40	5	2	3
	PC5. negotiate right prices with the farmers		5	2	3









	PC6. ensure payments to suppliers (farmers) after assessing quantity and quality of agriresidues		3	1	2
	PC7.ensure all the equipment's, tools, logistic required for collection of agri-residues at the nodal points		5	2	3
	PC8. undertake proper collection and procurement of agri-residues		4	2	2
	PC9. identify efficient management of inventories that are procured		3	1	2
		TOTAL	40	15	25
SGJ/N6203: Densify and store agri- residue bales	PC1.undertake grading and sorting of agri- residues to avoid presence of thermal residues during densification		6	2	4
	PC2.check the baler before densification of agri-residue		5	2	3
	PC3. feed the hay/agri-residue into the baler properly		5	2	3
	PC4. maintain the pressure of the piston press of baler	4	2	2	
	PC5. operate the machine appropriately	40	6	2	4
	PC6. ensure proper collection of densified bales from the baler and appropriate storage of densified bales	40	3	1	2
	PC7. undertake proper and good packaging management & correct placement for transportation		4	1	3
	PC8. undertake proper storage of agri-residue bales		3	1	2
	PC9.maintain appropriate temperature, humidity and controlled atmosphere during storage		4	1	3
		TOTAL	40	14	26
SGJ/N6204: Sales and marketing of	PC1.choose appropriate buyer in a given situation of market parameters		3	1	2
agri-residue bales	PC2. identify best ways of attracting market price for agri-residues	30	4	2	2
	PC3. ensure appropriate quality as per the customer requirements		3	1	2









	PC4.establish cordial relations with clients involved in agri-residue purchase and use		5	2	3
	PC5. extract critical market information that is otherwise not in the public domain		4	2	2
	PC6. decide on appropriate transportation mode based on location of departure to arrival, cost, quality, time constraints, safety, etc.		4	1	3
	PC7. discuss and decide on the cost involved and the routing model		4	2	2
	PC8. assess the entire agri-residue transport mechanism to ensure efficient and on-time delivery		3	1	2
		TOTAL	30	12	18
SGJ/N6205: Maintain basic health and	PC1. keep workplace clean, organized and safe for work		5	2	3
workplace safety	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	40	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	26