

Model Curriculum

Technician-Paper Bag Manufacturing

SECTOR: GREEN JOBS
SUB-SECTOR: OTHER GREEN JOBS
OCCUPATION: MANUFACTURING
REF ID: SGJ/Q8701, V1.0
NSQF LEVEL: 3

		
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: 'Technician-Paper Bag Manufacturing' QP No. 'SGJ/Q 8701 NSQF Level 3'		
Date of Issuance:	August 11 th , 2020	
Valid up to:	August 10 th , 2022	
* Valid up to the next review date of the Qualification Pack		Authorised Signatory (Skill Council for Green Jobs)

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Technician-Paper Bag Manufacturing

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Technician-Paper Bag Manufacturing”, in the “Green Jobs” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Technician-Paper Bag Manufacturing		
Qualification Pack Name & Reference ID	SGJ/Q8701, v1.0		
Version No.	1.0	Version Update Date	11.08.2020
Pre-requisites to Training	Ability to read and write		
Training Outcomes	After completing this programme, participants will be able to: <ul style="list-style-type: none"> • Check machines, tools and equipment for paper bag manufacturing • Carry out paper cutting and creasing • Make eyelets in paper bag • Paste, print and dispatch paper Bag • Maintain basic health and workplace safety • Improve communication and soft skills which include etiquette manner, perception etc. 		

This course encompasses 5 out of 5 Compulsory NOS (National Occupational Standards) of “Technician-Paper Bag Manufacturing” Qualification Pack issued by “Skill Council for Green Jobs”.

COMPULSORY NOS:

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 06:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code Bridge Module	<ul style="list-style-type: none"> Explain different types of waste Describe different sources of waste and methods of treatment, re-use and disposal Describe use of recycled/processed paper for paper bag manufacturing Explain the extent and use of paper bags for various end use purposes Explain toxins and harmful chemicals in printing industry Explain waste management hierarchy Explain importance of wastewater reuse and recycling Explain different stages of paper bag manufacturing List out types of computational based printing available in market 	Demo model of paper bag manufacturing plant, geographical map of India, chemicals used in printing, computational design of paper bag
2	Check machines, tools and equipment for paper bag manufacturing Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 27:00 Corresponding NOS Code SGJ/N8701	<ul style="list-style-type: none"> Identify different parts of paper bag manufacturing machines Explain dos and don'ts while assembling components of machines Explain operation and maintenance requirement for machine components which required replacements Assess rating of the machines and electrical requirements specified Assess required dimension of paper to be cut Check sharpness of the blade Explain how to place paper reel on the reel stand Adjust the specification of the cutting machine as required Insert the paper through feeding table Place the stands in vertically upward position Explain how to connect both stands using a cross bar Explain how to place the machine unit over the top of the stand Fix feeding table as required on unit Connect accelerator unit to the machine Connect the creasing machine to external power Check functioning of creasing machine Fix base of screen printing apparatus Fix template 	Activity material, demo model of paper cutting machine, creasing machine, dye

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> Check required ink for screen printing Fit the frame with screen printing apparatus Check punching hole dimension as per requirement Explain how to change the measurements between the two holes Explain how to change dye according to requirement Demonstrate troubleshooting mechanism for repair of cutting and creasing machine 	
3	<p>Carry out preparatory activities for making paper bag</p> <p>Theory Duration (hh:mm) 09:00</p> <p>Practical Duration (hh:mm) 36:00</p> <p>Corresponding NOS Code SGJ/N8702</p>	<ul style="list-style-type: none"> Explain product specification of paper bags to be produced as per production line-up Evaluate measurements Explain different templates used for standard bag measurements Adjust male and female creasing wheels horizontal based on measurements Align vertical shaft based on GSM of paper Explain load bearing capacity of paper List out different types of paper Identify Grams per Square Meter (GSM) of various papers from the list Identify Burst Factor (BF) of various papers from the list Explain how to select the appropriate paper based on BF, GSM and reel width Select dimensions of the paper bag Select appropriate cutting measurements Cut the paper as per selected dimensions Align the creasing wheels as per the dimensions of the paper bag Mark the paper as per the required dimensions Crease the paper Fold paper based on the creasing Explain how to press the folding 	Activity chart, different types of papers
4	<p>Paste, print and dispatch paper Bag</p> <p>Theory Duration (hh:mm) 25:00</p> <p>Practical Duration (hh:mm)</p>	<ul style="list-style-type: none"> Explain packing system adopted for easy supply chain Explain about dispatch procedures Explain to use inks for product marking for dispatching right product to the right customer Explain technique of impression exposing match with customer 	Frame, ink, activity material, demo model of screen printer, eyelets, handles

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	50:00 Corresponding NOS Code SGJ/N8703	<ul style="list-style-type: none"> requirements Identify various parts of screen printing apparatus Prepare the screen as per the required impression Explain how to fit the frame with the exposed sheet Apply ink and print the required image on paper bag Explain how to paste side of the paper on folding Explain how to paste bottom of the paper on folding Make eyelets Explain how to fix handle either with thread or paper Make bundle of paper bag Identify the demand of sales department Explain how to dispatch the bundle of paper bag as per demand 	
5	Maintain basic health and workplace safety Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 05:00 Corresponding NOS Code SGJ/N6205	<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 of waste in accordance with environmental safety Demonstrate use of Personal Protective Equipment (PPE) and its availability at work place 	Safety tool kits (including gloves, mask, boots etc.), first aid kit
6	Work effectively with others Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 24:00 Corresponding NOS Code SGJ/N0120	<ul style="list-style-type: none"> Identify ways to assist colleagues positively to maximize effectiveness and efficiency in carrying out tasks Discuss importance of work culture Demonstrate appropriate communication etiquette and dressing at work place Demonstrate responsible and disciplined behaviour at the workplace Identify ways to put up grievances and problems to appropriate authority Demonstrate collaboration and group participation to achieve common goals Explain gender sensitivity and PwD sensitivity List different types of disability and overcoming challenges 	Short-answer and fill-in-the blank papers, rubrics and quizzes, internet connecting devices

Sr. No.	Module	Key Learning Outcomes	Equipment Required
7	Plant Visit (hh:mm) 08:00	Visit to nearest Paper Bag Manufacturing Unit	
	Total Duration 225 Hours Theory Duration 65 Hours Practical Duration 160 Hours	Unique Equipment Required: Demo model of paper bag manufacturing plant, geographical map of India, activity material, demo model of paper cutting machine, creasing machine, dye, activity chart, different types of papers, frame, ink, demo model of screen printer, eyelets, handles, safety tool kits (including gloves, mask, boots etc.), first aid kit, short-answer and fill-in-the blank papers, rubrics and quizzes, internet connecting devices	

Grand Total Course Duration: 225 Hours, 0 Minutes

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

Trainer Prerequisites for Job role: “Technician-Paper Bag Manufacturing” mapped to Qualification Pack: “SGJ/Q8701, v1.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “SGJ/Q8701, Version 1.0”
2	Personal Attributes	The Individual is expected to have good communication skill, team spirit, be courteous and polite and should be able to work across various locations. S/He should be energetic, self-motivated and able to produce good quality work
3	Minimum Educational Qualifications	Graduate preferably in electrical, electronics, environment or chemical discipline
4a	Domain Certification	Certified for Job Role: “Technician-Paper Bag Manufacturing” mapped to QP: “SGJ/Q8701, 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/Q2601” or equivalent. Minimum accepted score as per SSC guidelines is 80%
5	Experience	10 th pass with two years of experience in relevant waste management organisation or similar occupation

CRITERIA FOR ASSESSMENT OF TRAINEES

Please refer to the QP-NOS for the Assessment Criteria.