

CURRICULUM

SILK WEAVING MANUFACTUER

SECTOR: TEXTILE
SUB-SECTOR: SILK
OCCUPATION: MANUFACTURER
REFERENCE ID: TEXTILES COMMITTEE (RSA)/ TC SILK 03
ALIGNED TO: NCO-2015/8152.9900
NSQF level: 4

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Silk weaving manufacturer”, in the “textile” sector/industry and aims at building the following key competencies amongst the learner.

Programme name	SILK WEAVING MANUFACTURER
Qualification Pack Name & Reference ID.	SILK WEAVING MANUFACTURER TEXTILES COMMITTEE (RSA)/ TC SILK 03
Version No.: 1.0	Version Update Date: 04/08/2019
Pre-requisites to Training:	10 th Standard pass with minimum 1 year experience in relevant field
Training Outcome:	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Identification of raw silk yarn, twisted yarn , design and weave pattern. • Production planning and allocation of work related to Silk weaving and CATD designing. • Supervise the production and silk weaving activities. • Supervise works related to quality aspects of production of twisted yarn and silk fabrics. • Working in a team for silk weaving establishment. • Maintain health, safety and security at workplace. • Comply with industry and organizational requirement.

This course encompasses 5 out of 5 Compulsory National Occupational Standards (NOS) of “SILK WEAVING MANUFACTURER” Qualification Pack issued by TEXTILES COMMITTEE (RSA).

Sl. No.	Modules (NOS) of “Silk Weaving manufacturer”	Key Learning Outcome	Equipments Required
1	<p>Introduction to Silk Fibre, fibre sources, design & weave pattern and Weaving Industry</p> <p>Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code: TEXTILES COMMITTEE RSA /N 0301</p>	<ul style="list-style-type: none"> • Gain knowledge on the institute • Gain knowledge on the faculty • Gain knowledge on training requirements • Gain knowledge on basic skills of communication • Understand the role of Tasar and Muga silk reeling and Eri spinning manufacturer • Plan for the writing Pre test. 	<p>Class room requirements: a batch of 25 people seating capacity with a screen and projector</p>
2	<p>Understanding of Silk Weaving Technology</p> <p>Theory Duration (hh:mm) 16:00 Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code: TEXTILES COMMITTEE RSA /N 0302</p>	<ul style="list-style-type: none"> • Ability to identify the raw silk in the lot on the basis of denier, and type of weave, twist level. • Familiar with type of yarn to be used in preparatory and weaving . • Able to Dismantling & Assembling of loom. • Understand the Basic Weaves, Design. Draft & Peg plan. Weaving calculations. • Ability to know the weaving using doobby & jacquard mechanisms. • Able to create free hand textile design for doobby and Jacquard designing on graph sheets • Ability to know the Design calculation, Drawing, Denting • Gain knowledge on construction of harness, binding of comber board • Gain knowledge on Computer Aided Textile Designing using software • Ability to scan, edit, punching the Jacquard cards • Able to Repair and maintenance of loom and card punching machine • Gain knowledge on to set right the defects that occur 	<p>1. common for every batch: poster/video visuals for work method 2. Class room requirements: a batch of 25 people seating capacity with a screen and projector</p>

		<p>during twisting and weaving processes.</p> <ul style="list-style-type: none"> • Ensure proper knowledge of motivational aspects. • Gain knowledge on marketing aspects. • Know about organizational and industry standards • Know the requirements for self development • Gain knowledge on various health hazards relevant to workplace and basic first aid training. • Able to prepare project reports for appraisal to bankers for loan towards establishment of weaving unit. 	
3	<p>Production planning and Operating of Silk weaving preparatory & weaving Machines and related activities</p> <p>Theory Duration (hh:mm) 26:00 Practical Duration (hh:mm) 62:00</p> <p>Corresponding NOS Code TEXTILES COMMITTEE RSA /N 0303</p>	<ul style="list-style-type: none"> • Understand the productivity of machines available in the preparatory/weaving section • Ability to Plan allocation and operation to ensure functioning of the unit for achieving the production target. • Ability to organize the raw silk, warper beam, for running the weaving unit. • Understand the maintenance requirements of machines in the silk weaving unit. • Understand the machine break-down reasons and ensure earliest running of the broken-down machine through replacement of requisite spare through stores and repair activities by providing instruction accordingly. • Understand the soaking recipe, tinting, process parameters for different type of yarns. • Understand the effect of winding / Doubling speed, Yarn tension, Number of ply, RH/Temperature in the department, Twist direction, on the winding / doubling performance, waste generation percentage and labour allocation. • Understand the warp specification like Raw silk denier, ply, TPI, Single/ Double twist, Twist Direction, No. Of ends and warp length. • Understand the fabric structure, specification, heald count, reed count ,order of drawing and denting Selvedge, piecing / knotting requirement, gaiting the loom, the weft colour and quantity requirement for pirn winding. • Familiar with the primary and auxiliary motions are set for trouble free, quality fabric production • Ability to arrange the loom with the required speed, Picks per inch, Warp tension and Design, proper doffing and checking for quality of the woven fabric. • Understand the time and temperature requirement for twist setting of different type of twisted silk yarn. • Ability to check quality of twisted yarn, belt tensions, warp tension, fabric defects etc., • Ability to calculate the production loss and see the loss is within the permissible limits Ability to check the quality 	<p>1. common for every batch: poster/video visuals for work method 2. Class room requirements: a batch of 25 people seating capacity with a screen and projector</p>

		<p>and take corrective measures when deviation is found.</p> <ul style="list-style-type: none"> • Gain Knowledge about the basic requirements for team working • Gain knowledge about the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their application under different working conditions. • Gain knowledge on various health hazards relevant to workplace and basic first aid training. • Know the requirements for self development • Gain knowledge on Organizational & Industry standards. 	
4	<p>Quality aspects of production in industry</p> <p>Theory Duration (hh:mm) 06:00 Practical Duration (hh:mm) 18:00</p> <p>Corresponding NOS Code TEXTILES COMMITTEE RSA /N 0304</p>	<ul style="list-style-type: none"> • Gain / understand the working practises followed by the industry in silk preparatory unit. • Gain / understand the working practises followed by the industry in silk Handloom weaving clusters. • Gain / understand the working practises followed by the industry in silk Handloom weaving clusters. • Gain / understand the working practises followed by the industry in silk Handloom weaving clusters. 	<p>1. Common for every batch: poster /video visuals for work method</p> <p>2.Class room requirements: A batch of 25 people seating capacity with a screen and projector</p>
5	<p>Soft skill to improve safety, behaviour, hygiene, attitude, etc.</p> <p>Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code TEXTILES COMMITTEE RSA /N 0305</p>	<ul style="list-style-type: none"> • Understand the team work and its importance • importance of the communication and attitude while working • Taking care of personal hygiene • Knowledge on various health hazards relevant to workplace and basic first aid training. • Identify and select right equipment such as fire extinguisher & based on type of fire. • Become good practice on first aid, fire fighting etc. 	<p>1. Common for every batch: poster/video visuals for work method</p> <p>2.Class room requirements: a batch of 25 people seating capacity with a screen and projector</p>

NOS	No. of Hours	
	Theory	Practical
1. Introduction to Silk Fibre, fibre sources, design & weave pattern and Weaving Industry	12	4
2. Understanding of Silk Weaving Technology	16	40
3. Production planning and Operating of Silk weaving preparatory & weaving Machines and related activities	26	62
4. Quality aspects of production in industry	6	18
5. Soft skill to improve safety, behaviour, hygiene, attitude, etc.	12	4
Sub-Total	72(36%)	128 (64%)
TOTAL	200	

Grand Total Course Duration: 200 Hours, 0 Minutes