

# **CURRICULUM**

## **MULBERRY SILK REELING MANUFACTURER**

<b>SECTOR:</b>	<b>TEXTILE</b>
<b>SUB-SECTOR:</b>	<b>SILK</b>
<b>OCCUPATION:</b>	<b>MANUFACTURER</b>
<b>REFERENCE ID:</b>	<b>TEXTILES COMMITTEE (RSA)/ TC SILK 02</b>
<b>ALIGNED TO:</b>	<b>NCO-2015/8151.1300</b>
<b>NSQF level:</b>	<b>4</b>

### **CURRICULUM / SYLLABUS**

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

Programme name	SILK REELING MANUFACTURER
Qualification Pack Name & Reference ID.	SILK REELING MANUFACTURER TEXTILES COMMITTEE (RSA)/ TC SILK 02
Version No.: 1.0	Version Update Date: 04/08/2019
Pre-requisites to Training:	10 Standard Pass 1 year of experience in silk reeling industry.
Training Outcome:	After completing this programme, participants will be able to: <ul style="list-style-type: none"><li>• Plan for cocoon procurement and assessing for silk price to quote for cocoons</li><li>• Identify skills required for labours for various reeling activities</li><li>• Assessment of quality of cocoons suitable for production of quality raw silk.</li><li>• Production planning and operator allocation in the reeling unit.</li><li>• Monitor the production of raw silk yarn activities.</li><li>• Monitor works related to quality aspects of drying, cooking, reeling, re-reeling, skein making and packing of raw silk.</li><li>• Working in a team</li><li>• Maintain health, safety and security at workplace</li><li>• Comply with industry and organizational requirement</li></ul>

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

Sl. No.	Modules (NOS) of “Silk reeling Manufacturer”	Key Learning Outcome	Equipments Required
1	<p>Introduction to Silk Fibres, fibre sources and Industry</p> <p>Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code: TEXTILES COMMITTEE RSA /N 0201</p>	<ul style="list-style-type: none"> <li>• Gain knowledge on the institute</li> <li>• Gain knowledge on the faculty</li> <li>• Gain knowledge on training requirements</li> <li>• Gain knowledge on basic skills of communication</li> <li>• Understand the role of silk reeling manufacturer</li> <li>• Plan for the writing Pre test.</li> </ul>	<p>Class room requirements: a batch of 25 people seating capacity with a screen and projector</p>
2	<p>Understanding of silk reeling technology</p> <p>Theory Duration (hh:mm) 16:00 Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code TEXTILES COMMITTEE RSA /N 0202</p>	<ul style="list-style-type: none"> <li>• Identification of quality of cocoons and its drying, sorting and storing.</li> <li>• Gain knowledge on cocoon cooking, reeling, re-reeling and silk finishing.</li> <li>• Gain knowledge on Automatic silk reeling.</li> <li>• Identification of quality of raw silk.</li> <li>• Identification of silk marketing / sales methodologies.</li> <li>• Gain knowledge on financial aspects of silk reeling unit.</li> <li>• Ensure proper knowledge of motivational aspects.</li> <li>• Ensure proper knowledge of schemes.</li> <li>• Gain knowledge on twisting aspects.</li> <li>• Know about organizational and</li> </ul>	<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>industry standards</p> <ul style="list-style-type: none"> <li>• Know the requirements for self development</li> <li>• Gain knowledge on various health hazards relevant to workplace and basic first aid training.</li> </ul>	
3	<p><b>Operation of silk reeling machines</b></p> <p>Theory Duration (hh:mm) 26:00 Practical Duration (hh:mm) 62:00</p> <p>Corresponding NOS Code TEXTILES COMMITTEE RSA /N 0203</p>	<ul style="list-style-type: none"> <li>• Planning of production in the silk reeling.</li> <li>• Practical assessment of quality of cocoons and cocoon drying, sorting and storing.</li> <li>• Gain knowledge on practical aspects of cocoon cooking, reeling, re-reeling and silk finishing.</li> <li>• Practical aspects of Automatic silk reeling.</li> <li>• Identification of quality of raw silk.</li> <li>• Boiler operations and working knowledge.</li> <li>• Maintenance and cleaning activities of machines, equipments and silk reeling machinery.</li> <li>• Ensure suitable by-product utilization.</li> <li>• Ensure proper production of uniform quality raw silk</li> </ul>	<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>
4	<p><b>Quality Aspects in Silk Reeling Industry</b></p> <p>Theory Duration (hh:mm) 06:00 Practical Duration (hh:mm) 18:00</p> <p>Corresponding NOS Code TEXTILES COMMITTEE RSA /N 0204</p>	<ul style="list-style-type: none"> <li>• Gain knowledge on cocoon procurement.</li> <li>• Gain knowledge on cocoon testing and cocoon quality aspects.</li> <li>• Practical judgement of cocoon quality before auction.</li> <li>• Ensuring the working of silk reeling unit.</li> </ul>	<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> <p>3. Bus to carry them to field visit.</p>

		<ul style="list-style-type: none"> <li>• Gain knowledge on automatic silk reeling unit running.</li> <li>• Ensuring the by-product utilization.</li> <li>• Ensure reduction in cost of production.</li> <li>• Produce quality of raw silk required by market.</li> <li>• Maintaining process parameter in silk reeling, re-reeling and boiler.</li> <li>• Utilization of raw silk in weaving units.</li> </ul>	
5	<p><b>Soft Skills to Improve Safety, Behaviour, Hygiene, Attitude, etc.</b></p> <p>Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code TEXTILES COMMITTEE RSA /N 0205</p>	<ul style="list-style-type: none"> <li>• Understand the team work and its importance</li> <li>• importance of the communication and attitude while working</li> <li>• Taking care of personal hygiene</li> <li>• Knowledge on various health hazards relevant to workplace and basic first aid training.</li> <li>• Identify and select right equipment such as fire extinguisher &amp; based on type of fire.</li> <li>• Become good practice on first aid, fire fighting etc.</li> </ul>	<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>

Title of component and Identification code/NOSs/Learning outcomes	Estimated size (learning hours)		Level
	Theory	Practical	
TEXTILES COMMITTEE (RSA) / N 01 Introduction to Silk Fibres, fibre sources and Industry	12	4	
TEXTILES COMMITTEE (RSA) / N 02 Understanding of silk reeling technology	16	40	4
TEXTILES COMMITTEE (RSA) / N 03 Operation of silk reeling machines	26	62	
TEXTILES COMMITTEE (RSA) / N 04 Quality Aspects in Silk Reeling Industry	6	18	
TEXTILES COMMITTEE (RSA) / N 05 Soft Skills to Improve Safety, Behaviour, Hygiene, Attitude, etc.	12	4	
<b>sub total</b>	<b>72 (36%)</b>	<b>128 (64%)</b>	

Grand Total Course Duration: 200 Hours, 0 Minutes