

Certificate Course in Supervisory skilling programme on Maintenance of Jute Mill Machinery (S-4)

Duration: 720 hours

Domain Skill: 660 hours

Section	Maintenance of Jute Mill Machinery	Contact Hours
Introduction of Maintenance and jute mill machine	<ul style="list-style-type: none"> • Knowledge about the maintenance objectives, outcomes, • Knowledge about various types of standard maintenance management systems and their proper execution in the shop floor <p>Various types of Jute Mill machinery and its working principle</p> <ul style="list-style-type: none"> • Spreader, Softener, Carding, Drawing, Spinning, Winding, Beaming, Loom, Damping, Calendaring, Lapping, Cutting, Sack sewing machine, Hemming, Herackle sewing machine etc. 	<p>Theory 50</p> <p>Practical 110</p>
Power Transmission and accessories	<p>Power transmission through Belt and gear drive.</p> <ul style="list-style-type: none"> • Types of gears- spur gear, bevel gear, helical gear, worm and worm wheel, rack and pinion and calculation • Belts – Flat, v-belt and hexagonal belt and calculation <p>Motor</p> <ul style="list-style-type: none"> • Basic principle of motor • Types of motor • Idea about HP/ KWh <p>Bushes and Bearings</p> <ul style="list-style-type: none"> • Various kinds of bearings bush bearing, ball and roller bearing, thrust bearing and their application in jute machinery. <p>Operating Tools</p> <ul style="list-style-type: none"> • Different measuring tools and operating tools • Key preparation 	<p>Theory 40</p> <p>Practical 75</p>
Brief about the Maintenance	<p>Maintenance Audit</p> <ul style="list-style-type: none"> • Preparation of Audit Format • Important check points <p>Maintenance type and frequency</p> <ul style="list-style-type: none"> • Schedule for normal cleaning and dust removal • Schedule for picking 	<p>Theory 60</p> <p>Practical 100</p>

Section	Maintenance of Jute Mill Machinery	Contact Hours
	<ul style="list-style-type: none"> • Schedule for staving • Schedule for general preventive maintenance • Schedule for overhauling maintenance <p>Type of breakdowns</p> <ul style="list-style-type: none"> • Causes and remedies <p>Maintaining records and ensuring availability of spares</p>	
Lubrication and its schedule	<p>Lubrication and its schedule</p> <ul style="list-style-type: none"> • Principle of lubrication. • Objective of Lubrication • Lubricants and their properties • Various application of lubricants • Selection of lubricants for various Jute machineries • Lubrication Schedule 	<p>Theory 20 Practical 40</p>
Jute Machinery Maintenance	<ul style="list-style-type: none"> • Identification of machine parts • Function of machine parts • Gearing diagram and calculations of jute machinery • Spreader Maintenance – assembly of gill bars, causes of bar jam • Carding Maintenance – repining and gauging and pin diameter checking, roll former diameter setting • Drawing Maintenance – repining, carriage setting, pressure adjustment of pressing roller • Spinning Maintenance – Dial gauge, height gauge • Loom maintenance – Cam Setting, Catcher pin setting (S4), Spear/ Rapier setting, Take up motion setting, etc. 	<p>Theory 25 Practical 140</p>
Basic Computer Skill	<ul style="list-style-type: none"> • Basic concept of computer and its necessary in jute mill • Introduction of MS Office <ul style="list-style-type: none"> ○ Application of MS Excel in jute mill maintenance and store keeping. • Internet and E-mail. 	<p>Theory 6 Practical 24</p>
Soft Skill	<ul style="list-style-type: none"> • Basic concept about the man machine ratio and hands complements • Fire and industrial safety management 	<p>Theory 5 Practical 5</p>
Interactive Session / Mill Visit / Mill Training		20
Total		720