

Curriculum
For
Certificate in Textile Machinery Repair
&
Maintenance (Weaving)
(Certificate Level: 1 Year)
Code: VI87S008
(2013)

Scheme of Studies

20% Theory 80% Practical

Repair and Maintenance Supervisor (weaving)

Semester 1:

Sr #	Modules	Theory Hours	Practical Hours	Total Hours
1	Module 1:	40	160	200
2	Module 2:	42	168	210
3	Module 3:	20	80	100
4	Module 4:	16	64	80
5	Module 5:	16	64	80
6	Module 6:	14	56	60
7	Module 7:	12	48	60
	TOTAL HOURS	160	640	800

Semester 2:

Sr #	Modules	Theory Hours	Practical Hours	Total Hours
1	Module 08:	20	80	100
2	Module 09:	30	120	150
3	Module 10:	22	88	110
4	Module 11:	28	112	140
5	Module 12:	16	64	80
6	Module 13:	24	96	120
7	Module 14:	20	80	100
	TOTAL HOURS	160	640	800

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Introduction

Repair & Maintenance Supervisor (Weaving)

This course mainly consists of detail study of repair and maintenance of different segments of weaving unit. In this course, trainee will easily understand different process like cleaning and lubrication of different loom parts. This course also contain full knowledge about different maintenance processes and their schedule along with complete working of loom.

- **Overall objective of course**

To be able to monitor all the maintenance operations of fabric manufacturing process.

- **Competencies gained after completion of course**

 - **Skilled Based:**

 - Trainees will be able to monitor raw material for weaving process.
 - Trainees will be able to supervise the maintenance of different segments like warping, sizing, drawing-in, looming processes and quality parameters of woven fabrics.
 - Trainees will ensure that the settings of all machines are according to the quality specifications and according to the instructions of weaving manager.
 - Trainee will be able to understand electronic and manual loom settings
 - Trainee will be able to overcome different maintenance faults on running loom.
 - Trainee must be able to mount tuck in and leno assembly.

 - **Knowledge Based:**

 - Trainee should be able to distinguish different types of yarns (Rigid, 100% cotton, stretch, blend, 100 % Filament etc).
 - Trainee should be able to distinguish between different types of oil and greases and their usage
 - Trainee should be able to distinguish between different types of bearings.
 - Trainee should be able to root out the cause of stoppages / breakages on loom instantly.
 - Trainee should be able to distinguish between different types of cams, shafts and pullies.

- **Job opportunities available immediately and in the future**

Textile weaving mills.(Mills having Shuttle, Projectile, Rapier, Air Jet, Water Jet looms)

- **Trainee entry level**

Primary/Middle

- **Minimum qualification of trainer**

BSc Textile Engineer (Weaving) or Maintenance Engineer.

- **Medium of Instruction i.e. language of instruction**

Urdu

- **Sequence of the modules**

Trainees must complete all modules in a given sequence.

MODULE 1: PLAN DAILY BASED MAINTENANCE SCHEDULE OF BACK PROCESS

MODULE 2: PLAN DAILY MAINTENANCE SCHEDULE UP TO SIX MONTHS FOR BACK PROCESS

MODULE 3: CHECK THE CLEANING OF TOTAL MACHINE PARTS OF BACK PROCESS

MODULE 4: ADJUST SIZING BEAM PARAMETERS OF BACK PROCESS

MODULE 5: SUPERVISE SIZE COOKING AREA PROCESS OF BACK PROCESS

MODULE 6: CHECK THE SUB STORE OF BACK PROCESS

MODULE 7: CHECK THE MACHINE AFTER FEEDBACK FROM LOOM SHED AND FOLDING

MODULE 8: PLAN CLEANING AND MAINTENANCE SCHEDULE ON DAILY BASES OF WEAVING SHED MAINTENANCE

MODULE 9: PLAN CLEANING AND MAINTENANCE SCHEDULE ON WEEKLY AND MONTHS BASES OF WEAVING SHED MAINTENANCE

MODULE 10: PLAN CLEANING AND MAINTENANCE SCHEDULE ON ANNUAL BASES OF WEAVING SHED MAINTENANCE

MODULE 11: MONITOR THE LOOM RUNNING OF WEAVING SHED MAINTENANCE

MODULE 12: CHECK THE SUB STORE MATERIALS OF WEAVING SHED MAINTENANCE

MODULE 13: DETECT THE MAINTENANCE PROBLEM AND REMOVAL OF WEAVING SHED MAINTENANCE

Module 14: Submit report the daily based and Shift wise work of Weaving Shed Maintenance

- **Timeframe of assessment (recommendation)**

Duration of course	1 Year
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Total hours	1600
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Training hours	1600
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Semester 1

Theory hours	160
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Practical hours	640
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Semester 2

Theory hours	160
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Practical hours	640
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1. Overview about the program –Curriculum for (Repair & Maintenance Supervisor (Weaving)) –

Module Title and Aim	Learning Units	Theory ¹ Days/hours	Workplace ² Days/hours	Timeframe of modules
<p>Module 1 Plan daily based maintenance schedule of back process</p>	<p>LU1. Monitor general maintenance and cleaning of warping creel. LU2. Check general maintenance and cleaning of warping head stock. LU3. Monitor general maintenance and cleaning of warping Hydraulic & pneumatic system. LU4. Check general maintenance and cleaning of Sizing creel. LU5. Monitor general maintenance and cleaning of Size box. LU6. Check general maintenance and cleaning of Drying Section. LU7. Monitor general maintenance and cleaning of Head Stock. LU8. Check general maintenance and cleaning of cooking area. LU9. Prepare cleaning and inspection schedule.</p>	40	160	
<p>Module 2 Plan daily maintenance schedule up to six months for back process.</p>	<p>LU1. Check general maintenance and cleaning of pneumatic cylinder & chain. LU2. Monitor general maintenance and cleaning of brake leather, bearing and pneumatic valve. LU3. Check general maintenance and cleaning of oil filter, oil pressure valves and hydraulic pump. LU4. Monitor general maintenance and cleaning of jacks and brake leathers</p>	42	168	Completing Module 1

¹ Learning hours in training provider premises

² Training workshop, laboratory and on-the-job workplace

	<p>of pneumatic system. LU5. Check general maintenance and cleaning of circulation pump and pneumatic system. LU6. Monitor general maintenance and cleaning of PT 100, Teflon coated cylinder dry machine and steam system. LU7. Check general maintenance and cleaning of waxing device, leasing rods etc. LU8. Monitor general maintenance and cleaning of PT 100, auto leveler, and steam system</p>			
<p>Module 3 Check the cleaning of total machine parts of Back Process.</p>	<p>LU1. Check Cleaning of bearings. LU2. Check Cleaning of belts. LU3. Check Cleaning of gear box. LU4. Check Cleaning of chain.</p>	20	80	Completing Module 1,2
<p>Module 4 Adjust sizing beam parameters of Back Process.</p>	<p>LU1. Fix the length of beam according to quality. LU2. Fix the beam flange according to quality LU3. Fix the beam adopter according to quality</p>	16	64	Completing Module 1,2,3
<p>Module 5 Supervise size cooking area process of back Process.</p>	<p>LU1. Supervise maintenance of impeller of cooking tank. LU2. Supervise maintenance of impeller of storage tank. LU3. Supervise maintenance of size circulation.</p>	16	64	Completing Module 1,2,3,4
<p>Module 6 Check the sub store of Back Process.</p>	<p>LU1. Check the quantity of new machine parts LU2 Check the quantity of damaged machine parts. LU3. Check the quantity of lubricants.</p>	14	56	Completing Module 1,2,3,4,5
<p>Module 7 Check the machine after feedback from loom shed and folding.</p>	<p>LU1. Detect the faults of material and their types. LU2. Detect the fault of machine.</p>	12	48	Completing Module 1,2,3,4,5,6

<p>Module 8</p> <p>Plan cleaning and maintenance schedule on daily bases of Weaving Shed Maintenance.</p>	<p>LU1. Check general maintenance and cleaning of left and right side of picking mechanism. LU2. Monitor general maintenance and cleaning of outer part of loom. LU3. Check oiling and greasing of machine parts and knowledge of different types of greases. LU4. Monitor general maintenance and cleaning of seal points.</p>	<p>20</p>	<p>80</p>	<p>Completing Module 1,2,3,4,5,6,7</p>
<p>Module 9</p> <p>Plan cleaning and maintenance schedule on weekly and months bases of Weaving Shed Maintenance.</p>	<p>LU1. Monitor oiling and greasing of inner areas LU2. Check grease points in back rest, leno and tuck in assembly. LU3. Check grease points in picking area. LU4. Check grease points in take up area. LU5. Check manual grease points in shedding area. LU6. Check manual grease points in cam box area and oil level.</p>	<p>30</p>	<p>120</p>	<p>Completing Module 1,2,3,4,5,6,7, 8</p>
<p>Module 10</p> <p>Plan cleaning and maintenance schedule on annual bases of Weaving Shed Maintenance.</p>	<p>LU1. Check oil change of cam box. LU2. Check oil change of let off and take up. LU3. Check air pressure valve. LU4. Check oil change of tuck in and rotary leno.</p>	<p>22</p>	<p>88</p>	<p>Completing Module 1,2,3,4,5,6,7, 8,9</p>
<p>Module 11</p> <p>Monitor the loom running of Weaving Shed Maintenance and oil leakage.</p>	<p>LU1. Check vibration and sound of loom. LU2. Supervise damage in all mechanisms. LU3. . Check the pick length according to draw width. LU4. Check selvedge faults. LU5. Check air pressure air leakage and oil leakage.</p>	<p>28</p>	<p>112</p>	<p>Completing Module 1,2,3,4,5,6,7, 8,9,10</p>

<p>Module 12</p> <p>Check the sub store materials of Weaving Shed Maintenance.</p>	<p>LU1. Check the quantity of new and used replaced machine parts. LU2. Check the quantity of damaged machine Parts. LU3. Check the quantity of lubricants.</p>	<p>16</p>	<p>64</p>	<p>Completing Module 1,2,3,4,5,6,7,8,9,10,11</p>
<p>Module 13</p> <p>Detect the maintenance problem and removal of Weaving Shed Maintenance.</p>	<p>LU1. Detect the sizing faults and their types. LU2. Detect the Electric/Electronic faults. LU3. Detect faults of Loom and their types. LU4. Detect faults of materialit's types. LU5. Detect drawing faults</p>	<p>24</p>	<p>96</p>	<p>Completing Module 1,2,3,4,5,6,7,8,9,10,11,12</p>
<p>Module 14</p> <p>Submit report the daily based and Shift wise work of Weaving Shed Maintenance.</p>	<p>LU1. Report of maintenance area. LU2. Report of production area. LU3. Report of in or out time and additional work. LU4. Report of shed pressure.</p>	<p>20</p>	<p>80</p>	<p>Completing Module 1,2,3,4,5,6,7,8,9,10,11,12,13</p>

2. (Repair & Maintenance Supervisor (Weaving))Curriculum Contents (Teaching and Learning Guide)

Module 1: Plandailybasedmaintenancescheduleofbackprocess

Objective ofthe Module: Studentshouldbeabletakecahargeandawareofproductionreport.

Duration:200hoursTheory:40hoursPractice:.....160hours

Learning Unit	Learning Outcomes	Learning Elements	Duration Theory + Practical	Materials Required	Learning Place
LU1. Monitor general maintenance and cleaning of warping creel.	To check cleaning of warping creel.	<p>Knowledge of: Cleaning and lubrication of warping creel parts.</p> <p>Ability to: Monitor general lubrication and cleaning of warping creel.</p>	6 + 24	Warping machine	Class/Workplace
LU2. Check general maintenance and cleaning of warping head stock.	Ensure maintenance and cleaning of warping head stock.	<p>Knowledge of: Lubrication and cleaning of warping head stock.</p> <p>Ability to: Check general maintenance and cleaning of warping head stock.</p>	4 + 16	Warping machine	Class/Workplace
LU3. Monitor general maintenance and cleaning of warping Hydraulic & pneumatic system.	To check Lubrication and cleaning of warping Hydraulic & pneumatic system.	<p>Knowledge of: Lubrication and cleaning of warping Hydraulic & pneumatic system.</p> <p>Ability to: Monitor general maintenance and cleaning of warping Hydraulic system.</p>	4 + 16	Warping machine	Class/Workplace

LU4. Check general maintenance and cleaning of Sizing creel.	To ensure maintenance and cleaning of Sizing creel.	<p>Knowledge of:</p> <p>Cleaning and lubrication of sizing creel parts.</p> <p>Ability to:</p> <p>Check general maintenance and cleaning of Sizing creel.</p>	4 + 16	Sizing machine	Class/Workplace
LU5. Monitor general maintenance and cleaning of Size box.	To monitor general maintenance and cleaning of Size box.	<p>Knowledge of:</p> <p>Size box cleaning and lubrication parts.</p> <p>Ability to:</p> <p>Monitor general maintenance and cleaning of Size box.</p>	2 + 8	Sizing machine	Class/Workplace
LU6. Check general maintenance and cleaning of Drying Section.	To check general maintenance and cleaning of Drying Section.	<p>Knowledge of:</p> <p>Drying section cleaning and lubrication parts.</p> <p>Ability to:</p> <p>Check general maintenance and cleaning of Drying Section.</p>	4 + 16	Sizing machine	Class/Workplace
LU7. Monitor general maintenance and cleaning of Head Stock.	Monitoring of general maintenance and cleaning of Head Stock.	<p>Knowledge of:</p> <p>Maintenance and cleaning of Head Stock.</p> <p>Ability to:</p> <p>Check general maintenance and cleaning of Head Stock.</p>	6 + 24	Sizing machine	Class/Workplace
LU8. Check	To	Knowledge of:	6 + 24	Sizing	

general maintenance and cleaning of cooking area.	monitorgeneral maintenance and cleaning of cooking area.	Cleaning and maintenance of size cooking area. Ability to: Check general maintenance and cleaning of cooking area.		machine	
LU9. Prepare cleaning and inspection schedule of sizing.	To check cleaning and inspection schedule of sizing.	Knowledge of: Inspection schedules of sizing. Ability to: Prepare cleaning and inspection schedule of sizing.	4 + 16	Sizing machine	Class/Workplace

Module 2: Plandaily maintenanceschedule up to sixmonths for backprocess:

Objective ofthe Module: Studentshouldbeable to monitor housekeeping, manpower, raw material and production.

Duration:210hoursTheory:42hoursPractice:.....168hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Check general maintenance and cleaning of pneumatic cylinder & chain..	To Check general maintenance and cleaning of pneumatic cylinder & chain..	Knowledge of: General maintenance and cleaning of pneumatic cylinder & chain.. Ability to: Check general maintenance and cleaning of pneumatic cylinder & chain..	06+ 24	Leather brakes.	Class/Workplace
LU2. Monitor general maintenance and cleaning	To check general	Knowledge of: Maintenance and cleaning of brake	04+ 16	Bearings.	Class/Workplace

of brake leather, bearing and pneumatic valve	maintenance and cleaning of brake leather, bearing and caliber	leather, bearing and pneumatic valve Ability to: Monitor general maintenance and cleaning of brake leather, bearing and pneumatic valve			
LU3. Check general maintenance and cleaning of oil filter, oil pressure valves and hydraulic pump.	To check general maintenance and cleaning of oil filter, oil pressure valves.	Knowledge of: Maintenance and cleaning of oil filter, oil pressure valves and hydraulic pump. Ability to: Check general maintenance and cleaning of oil filter, oil pressure valves and hydraulic pump.	06+ 24	Oil Filters	Class/Workplace
LU4. Monitor general maintenance and cleaning of jacks and brake leathers of pneumatic system.	To check general maintenance and cleaning of jacks and brake leathers of pneumatic box.	Knowledge of: Maintenance and cleaning of jacks and brake leathers of pneumatic system. Ability to: Monitor general maintenance and cleaning of jacks and brake leathers of pneumatic system.	06+ 24	Jacks and pneumatic box.	Class/Workplace
LU5. Check general maintenance	To check general	Knowledge of: Maintenance and	06+24	Size circulation pump	Class/Workplace

and cleaning of circulation pump and pneumatic system.	maintenance and cleaning of circulation pump and pneumatic system.	cleaning of circulation pump and pneumatic system. Ability to: Check general maintenance and cleaning of circulation pump and pneumatic system.			
LU6. Monitor general maintenance and cleaning of PT 100, Teflon coated cylinder dry machine and steam system.	To check general maintenance and cleaning of PT 100, Teflon coated cylinder dry machine and steam system.	Knowledge of: Maintenance and cleaning of PT 100, Teflon coated cylinder dry machine and steam system. Ability to: Monitor general maintenance and cleaning of PT 100, Teflon coated cylinder dry machine and steam system.	04+16	Teflon coated cylinders	Class/Workplace
LU7. Check general maintenance and cleaning of waxing device, leasing rods etc.	To check general maintenance and cleaning of waxing device, leasing rods etc.	Knowledge of: Maintenance and cleaning of waxing device, leasing rods etc. Ability to: Check general maintenance and cleaning of waxing device, leasing rods etc.	04+16	Leasing rods	Class/Workplace
LU8. Monitor general maintenance and cleaning of PT 100, auto leveler, and steam system	To check general maintenance and cleaning of PT 100, auto leveler, and steam system	Knowledge of: Maintenance and cleaning of PT 100, auto leveler, and steam system	06+24	PT 100.	Class/Workplace

		Ability to: Monitor general maintenance and cleaning of PT 100, auto leveler, and steam system			
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Module 3: Check the cleaning of total machine parts of Back Process

Objective of the Module: Students should be able to prepare PPC Plan of warping department.

Duration:100 hours Theory:20 hours Practice:80 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Check Cleaning of bearings.	To check Cleaning of bearings.	Knowledge of: Cleaning of bearings. Ability to: Check Cleaning of bearings.	6+24	Bearings	Class/Workplace
LU2. Check Cleaning of belts.	To check Cleaning of belts.	Knowledge of: Cleaning of belts. Ability to: Check Cleaning of belts.	4+16	Belts	Class/Workplace
LU3. Check Cleaning of gear box.	To check Cleaning of gear box.	Knowledge of: Cleaning of gear box. Ability to: Check Cleaning of gear box.	6+24	Gear box	Class/Workplace
LU4. Check Cleaning of chain.	To check Cleaning of chain.	Knowledge of: Cleaning of chain. Ability to: Check Cleaning of chain.	4+16	Chain	Class/Workplace

Module 4: Adjusting beam parameters of Back Process

Objective of the Module: Students should be able to understand warping calculations.

Duration:80 hours Theory:16 hours Practice:64 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Fix the length of beam according to quality.	To fix the length of beam according to quality.	<p>Knowledge of:</p> <p>Fixing of length of beam according to quality.</p> <p>Ability to:</p> <p>Fix the length of beam according to quality.</p>	6+24	Weaver beam.	Class/Workplace
LU2. Fix the beam flange according to quality	To fix the beam flange according to quality	<p>Knowledge of:</p> <p>Fixing of beam flange according to quality</p> <p>Ability to:</p> <p>Fix the beam flange according to quality</p>	4 + 16	Weaver beam.	Class/Workplace
LU3. Fix the beam adopter according to quality	To fix the beam adopter according to quality	<p>Knowledge of:</p> <p>Fixing the beam adopter according to quality</p> <p>Ability to:</p> <p>Fix the beam adopter according to quality</p>	6 +24	Weaver beam.	Class/Workplace

Module 5: Supervise size cooking area process of back Process

Objective of the Module: Students should be able to assess the raw material of the warping section.

Duration:80 hours Theory:16 hours Practice:64 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Supervise maintenance of impeller of cooking tank.	To Supervise maintenance of impeller of cooking tank.	<p>Knowledge of:</p> <p>Maintenance of impeller of cooking tank.</p> <p>Ability to:</p> <p>Supervise maintenance of impeller of cooking tank.</p>	6+24		Class/Workplace
LU2. Supervise maintenance of impeller of storage tank.	To Supervise maintenance of impeller of storage tank.	<p>Knowledge of:</p> <p>Maintenance of impeller of storage tank.</p> <p>Ability to:</p> <p>Supervise maintenance of impeller of storage tank.</p>	4 +16		Class/Workplace
LU3. Supervise maintenance of size circulation.	To check maintenance of size circulation.	<p>Knowledge of:</p> <p>Maintenance of size circulation.</p> <p>Ability to:</p> <p>Supervise maintenance of size circulation.</p>	6+ 24	Size materials.	Class/Workplace

Module 6: CheckthesubstoreofBackProcess

Objective ofthe Module: Studentsshouldbeable to examine warpingbeamsinwaringdepartment.

Duration:70hoursTheory:14hoursPractice:.....56hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Check the quantity of new machine parts	To check the quantity of new machine parts	<p>Knowledge of:</p> <p>Quantity of new machine parts</p> <p>Ability to:</p> <p>Check the quantity of new machine parts.</p>	6+ 24	Inventory register.	Class/Workplace
LU2. Check the quantity of damaged machine parts.	To check the quantity of damaged machine parts.	<p>Knowledge of:</p> <p>Quantity of damaged machine parts.</p> <p>Ability to:</p> <p>Check the quantity of damaged machine parts.</p>	6+24	Damaged parts register.	Class/Workplace
LU3. Check the quantity of lubricants.	To check the quantity of lubricants.	<p>Knowledge of:</p> <p>Quantity of lubricants.</p> <p>Ability to:</p> <p>Check the quantity of lubricants.</p>	2 + 8	Lubricants register.	Class/Workplace

Module 7: Check the machine after feedback from loom shed and folding

Objective of the Module: Students should be able to examine warping beams in sizing section.

Duration:60 hours Theory:12 hours Practice:48 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Detect the faults of material and their types.	To detect the faults of material and their types.	<p>Knowledge of:</p> <p>Faults of material along with types.</p> <p>Ability to:</p> <p>Detect the fault of material.</p>	6 +24		Class/Workplace
LU2. Detect the fault of machine.	To detect the fault of machine.	<p>Knowledge of:</p> <p>Fault of machine.</p> <p>Ability to:</p> <p>Detect the fault of machine.</p>	6 +24		Class/Workplace

Module 8: Plan cleaning and maintenance schedule on daily bases of Weaving Shed Maintenance

Objective of the Module: Students should be able to prepare recipe according to the quality.

Duration:100 hours Theory:20 hours Practice:80 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Check general maintenance and cleaning of left and right side of picking mechanism.	To check general maintenance and cleaning of left and right side of picking mechanism.	<p>Knowledge of:</p> <p>Maintenance and cleaning of left and right side of picking mechanism.</p> <p>Ability to:</p> <p>Check general maintenance and cleaning of left and right side of picking mechanism.</p>	6+24		Class/Workplace

<p>LU2. Monitor general maintenance and cleaning of outer part of loom.</p>	<p>To check general maintenance and cleaning of outer part of loom.</p>	<p>Knowledge of: Maintenance and cleaning of outer part of loom.</p> <p>Ability to: Monitor general maintenance and cleaning of outer part of loom.</p>	<p>4+16</p>		<p>Class/Workplace</p>
<p>LU3. Awareness of all types of greases and oiling and greasing of machine parts.</p>	<p>To check all types of greases and oiling and greasing of machine parts.</p>	<p>Knowledge of: Different types of greases and oiling and greasing of machine parts.</p> <p>Ability to: Check oiling and greasing of machine parts.</p>	<p>4+16</p>	<p>Lubricants register.</p>	<p>Class/Workplace</p>
<p>LU4. Monitor general maintenance and cleaning of seal points.</p>	<p>To monitor general maintenance and cleaning of seal points.</p>	<p>Knowledge of: General maintenance and cleaning of seal points.</p> <p>Ability to: Monitor general maintenance and cleaning of seal points.</p>	<p>6+24</p>		<p>Class/Workplace</p>

Module 9: Plan cleaning and maintenance schedule on weekly and months bases of Weaving Shed Maintenance

Objective of the Module: Students should be able to understand all the adjustments regarding sizing process.

Duration:150 hours Theory:30 hours Practice:120 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Monitor oiling and greasing of inner areas	To check oiling and greasing of inner areas	<p>Knowledge of:</p> <p>Oiling and greasing of inner areas</p> <p>.Ability to:</p> <p>Monitor oiling and greasing of inner areas</p>	4+16	Loom catalogue	Class/Workplace
LU2. Check grease points in back rest area, leno, tuck in assembly.	To check grease points in back rest, leno, tuck in assembly.	<p>Knowledge of:</p> <p>Grease points in back rest area, leno, tuck in assembly</p> <p>Ability to:</p> <p>Check grease points in back rest area, leno, tuck in assembly.</p>	6+24	Loom catalogue	Class/Workplace
LU3. Check grease points in picking area.	To check grease points in picking area	<p>Knowledge of:</p> <p>Grease points in picking area</p> <p>Ability to:</p> <p>Check grease points in picking area</p>	4+16	Loom catalogue	Class/Workplace
LU4. Check grease points in take up area.	To check grease points	<p>Knowledge of:</p> <p>Grease points in take up area.</p>	6+24	Loom catalogue	Class/Workplace

	in take up area.	Ability to: Check grease points in take up area.			
LU5. Check manual grease points in shedding area.	To check manual grease points in shedding area.	Knowledge of: Manual grease points in shedding area. Ability to: Check manual grease points in shedding area.	4+16	Loom catalogue	Class/Workplace
LU6. Check manual grease points in cam box area and oil level.	To check manual grease points in cam box area and oil level.	Knowledge of: Manual grease points in cam box area. Ability to: Check manual grease points in cam box area.	6+24	Loom catalogue	Class/Workplace

Module 10: Plan cleaning and maintenance schedule on annual bases of Weaving Shed Maintenance

Objective of the Module: Students should be able to understand contract status given by costumers so that quality should be prepared according to quality.

Duration: 110 hours Theory: 22 hours Practice: 88 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Check oil change of cam box.	To check oil change of cam box.	Knowledge of: Oil change of cam box. Ability to: Check oil change of cam box.	6+24	Lubricants and Maintenance schedules.	Class/Workplace
LU2. Check oil change of let		Knowledge of:	6+24	Lubricants and	Class/Workplace

off and take up.	To check oil change of let off and take up.	Oil change of let off and take up. Ability to: Check oil change of let off and take up.		Maintenance schedules.	
LU3. Check air pressure valve parts..	To check air pressure valve parts.	Knowledge of: air pressure valve parts. Ability to: Check air pressure valve parts.	4+16	Lubricants and Maintenance schedules.	Class/Workplace
LU4. Check oil change of tuck in and rotary leno.	To check oil change of tuck in and rotary leno.	Knowledge of: Oil change of tuck in and rotary leno. Ability to: Check oil change of tuck in and rotary leno.	6 +24	Lubricants and Maintenance schedules.	Class/Workplace

Module 11: Monitor the loom running of Weaving Shed Maintenance

Objective of the Module: Students should be able to prepare size beam allocation reports that should be planned before stopping of any loom.

Duration:140 hours Theory:28 hours Practice:112 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Check vibration and sound of loom.	To check vibration and sound of loom.	Knowledge of: Vibration and sound of loom. Ability to: Check vibration and sound of loom.	4+16	Loom catalogue	Class/Workplace
LU2. Supervise damage in all mechanism.	To monitor damage in shedding mechanism,	Knowledge of: Damage in shedding mechanism picking, beating, take up and let	8+32	Loom catalogue	Class/Workplace

	picking beating, take up and let off mechanism.	off mechanism. Ability to: Supervise damage in all types of mechanisms.			
LU3. . Check the pick length according to draw width.	To check the pick length according to draw width.	Knowledge of: Prewinding drum setting. Ability to: Check the prewinding drum working.	4+16		Class/Workplace
LU4. Check selvedge faults.	To check selvedge faults.	Knowledge of: Selvedge faults as well as leno tail and tuck in shedopatti. Ability to: Check selvedge faults, leno tail and tuck in shedopatti. .	8+32		Class/Workplace
LU5. Check air pressure, air leakage and oil leakage.	To Check air pressure, air leakage and oil leakage.	Knowledge of: Air pressure, air leakage and oil leakage.. Ability to: Check air pressure, air leakage and oil leakage.	4+16	Pressure gauge	Class/Workplace

Module 12: Check the substore materials of Weaving Shed Maintenance

Objective of the Module: .Students should be able to understand drawing and denting plan according to quality of fabric.

Duration:80 hours Theory:16 hours Practice:64 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Check the quantity of new and used replaced machine parts.	To check the quantity of new and used replaced machine parts.	<p>Knowledge of:</p> <p>Quantity of new machine parts including replaced used parts.</p> <p>Ability to:</p> <p>Check the quantity of new and used replaced machine parts.</p>	6+24	Inventory register.	Class/Workplace
LU2. Check the quantity of damaged machine Parts.	To check the quantity of damaged machine Parts.	<p>Knowledge of:</p> <p>Quantity of damaged machine Parts.</p> <p>Ability to:</p> <p>Check the quantity of damaged machine Parts.</p>	4+16	Damage parts registers.	Class/Workplace
LU3. Check the quantity of lubricants.	To check the quantity of lubricants.	<p>Knowledge of:</p> <p>Quantity of lubricants.</p> <p>Ability to:</p> <p>Check the quantity of lubricants.</p>	6+24	Lubricants register.	Class/Workplace

Module 13:

Detect the maintenance problem and removal of Weaving Shed Maintenance

Objective of the Module: Students should be able to minimise rejection % and should get production without damage of fabric.

Duration:120 hours Theory:24 hours Practice:96 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Detect the sizing faults and their types.	To detect the sizing faults and their types.	<p>Knowledge of:</p> <p>Detail knowledge of Sizing faults and their types.</p> <p>Ability to:</p> <p>Detect the sizing faults and their remedies.</p>	4 + 16		Class/Workplace
LU2. Detect the Electric/Electronic faults.	To detect the Electric/Electronic faults.	<p>Knowledge of:</p> <p>Electric/Electronic faults.</p> <p>Ability to:</p> <p>Detect and understand the Electric/Electronic faults.</p>	6 + 24		Class/Workplace
LU3. Detect faults of loom and their types.	To detect faults of loom including types.	<p>Knowledge of:</p> <p>Faults of Loom.</p> <p>Ability to:</p> <p>Detect faults of loom, their types along with remedies.</p>	4 + 16		Class/Workplace
LU4. Detect faults of material.	To detect faults of material.	<p>Knowledge of:</p> <p>Faults of warp and weft.</p> <p>Ability to:</p>	6 + 24	Weft and warp yarn reports.	Class/Workplace

		Detect faults of warp and weft.			
LU5. Detect drawing faults	To detect drawing faults	<p>Knowledge of:</p> <p>Drawing faults like wrong denting of reed and heeled wires</p> <p>Ability to:</p> <p>Detect all types of drawing faults</p>	4 + 16	Drawing plan.	Class/Workplace

Module 14:

Submit report the daily based and Shiftwise work of Weaving Shed Maintenance

Objective of the Module: Students should be able to understand which environment is suitable for production of fabric with maximum efficiency.

Duration:100 hours Theory:20 hours Practice:80 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1. Report of maintenance area.	To check report of maintenance area	<p>Knowledge of:</p> <p>Report of maintenance area</p> <p>Ability to:</p> <p>Check report of maintenance area.</p>	6+24	Maintenance registers.	Class/Workplace
LU2. Report of production area.	To check report of production area.	<p>Knowledge of:</p> <p>Report of production area.</p> <p>Ability to:</p> <p>Check report of production area.</p>	4+16	Production registers.	Class/Workplace
LU3. Report of in or out time and additional work	To check report of in or out time and additional work	<p>Knowledge of:</p> <p>Report of in or out time and additional work</p>	4+16	In and out register.	Class/Workplace

		<p>Ability to:</p> <p>Check report of in or out time and additional work</p>			
<p>LU4. Report of shed pressure.</p>	<p>To check and evaluate the report of shed pressure.</p>	<p>Knowledge of:</p> <p>Report of additional work.</p> <p>Ability to:</p> <p>Check and prepare thereport for pressure shed.</p>	<p>6+24</p>	<p>Over time register.</p>	<p>Class/Workplace</p>

3. Assessment Template

Module 1 (Plandailybasedmaintenancescheduleofbackprocess)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Monitor general maintenance and cleaning of warping creel.	0.25	0.75	Give demonstration about maintenance of warping creel.	Practical demonstration	
LU2. Check general maintenance and cleaning of warping head stock.	0.5	0.5	Give demonstration about maintenance of warping headstock.	Oral Test & Practical demonstration	
LU3. Monitor general maintenance and cleaning of warping Hydraulic & Pneumatic system.	0.25	0.75	Give demonstration about maintenance of warping hydraulic& pneumatic system.	Oral Test & Practical demonstration	
LU4. Check general maintenance and cleaning of Sizing creel.	0	1	Give demonstration about maintenance of sizing creel.	Practical demonstration	
LU5. Monitor general maintenance and cleaning of Size box.	0.25	0.75	Give demonstration about maintenance of size box.	Practical demonstration	
LU6. Check general maintenance and cleaning of Drying Section.	0.5	0.5	Give demonstration about maintenance of drying section of sizing machine.	Written Test and Practical demonstration	

LU7. Monitor general maintenance and cleaning of Head Stock.	0.25	0.75	Give demonstration about maintenance of headstock section of sizing machine.	Practical demonstration	
LU8. Check general maintenance and cleaning of cooking area.	0	1	Give demonstration about maintenance of size cooking section.	Practical demonstration	
LU9. Prepare cleaning and inspection schedule.	0.5	0.5	Give demonstration about maintenance schedule.	Written test and Practical demonstration	

Module 2: (Plandaily maintenanceschedule up to sixmonths for backprocess)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Check general maintenance and cleaning of pneumatic cylinder & chain.	0.25	0.75	Give demonstration about Check maintenance and cleaning of pneumatic cylinder & chain..	Practical demonstration	
LU2. Monitor general maintenance and cleaning of brake leather, bearing and pneumatic valve	0.25	0.75	Give demonstration about maintenance of brake leather, bearing and pneumatic valve.	Practical demonstration	
LU3. Check general maintenance and cleaning of oil filter, oil pressure valves and hydraulic	0.5	0.5	Give demonstration about maintenance of oil filter and oil pressure valves and hydraulic	Practical demonstration	

pump.			pump.		
LU4. Monitor general maintenance and cleaning of jacks and brake leathers of pneumatic system.	0.25	0.75	Give demonstration about maintenance of jacks and leather of pneumatic system.	Practical demonstration	
LU5. Check general maintenance and cleaning of circulation pump and pneumatic system.	0.5	0.5	Give demonstration about maintenance of circulation pump and pneumatic system..	Oral Test and Practical demonstration	
LU6. Monitor general maintenance and cleaning of PT 100, Teflon coated cylinder dry machine and steam system.	0.25	0.75	Give demonstration about maintenance of PT 100, Teflon coated cylinder dry machine and steam system.	Practical demonstration	
LU7. Check general maintenance and cleaning of waxing device, leasing rods etc.	0.5	0.75	Give demonstration about maintenance of waxing device, leasing rods etc.	Written test and Practical demonstration	
LU8. Monitor general maintenance and cleaning of PT 100, auto leveler, and steam system	0.25	0.5	Give demonstration about maintenance of PT 100, auto leveler, and steam system.	Practical demonstration	

Module 3 (Check the cleaning of total machine parts of Back Process)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Check Cleaning of bearings.	0	1	Demonstrate about cleaning of bearings.	Written test & Practical demonstration	
LU2. Check Cleaning of belts.	0	1	Demonstrate about cleaning of belts.	Practical demonstration	
LU3. Check Cleaning of gear box.	0	1	Demonstrate about cleaning of gear box.	Practical demonstration	
LU4. Check Cleaning of chain.	0	1	Demonstrate about cleaning of chain.	Practical demonstration	

Module 4 (Adjusting beam parameters of Back Process)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Fix the length beam according to quality.	0	1	Adjust the length beam according to quality.	Oral Test & Practical demonstration	
LU2. Fix the beam flange according to quality	0.25	0.75	Adjust the beam flange according to quality	Practical demonstration	
LU3. Fix the beam adopter according to quality	0.25	.75	Adjust the beam adopter according to quality	Written test & Practical demonstration	

Module 5 (Supervise size cooking area process of back process)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Supervise maintenance of impeller of cooking tank.	0.5	0.5	Supervise maintenance of impeller of cooking tank.	Practical demonstration	
LU2. Supervise maintenance of impeller of storage tank.	0.25	0.75	Supervise maintenance of impeller of storage tank.	Practical demonstration	
LU3. Supervise maintenance of size circulation.	0.5	0.5	Check maintenance of size circulation.	Practical demonstration	

Module 6 (Check the substore of back process)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Check the quantity of new machine parts	0	1	Check the quantity of new machine parts	Practical demonstration	
LU2. Check the quantity of damaged machine parts.	0.5	0.75	Check the quantity of damaged machine parts.	Practical demonstration	
LU3. Check the quantity of lubricants.	0.25	0.5	Check the quantity of lubricants.	Practical demonstration	

Module 7 (Check the machine after feedback from loom shed and folding)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Detect the faults of material and their types.	0.25	1	Check and detect the faults of material and their types.	Practical demonstration	
LU2. Detect the fault of machine.	0.5	0.5	Check and detect the fault of machine.	Written test & Practical demonstration	

Module 8 (Plan cleaning and maintenance schedule on daily bases of Weaving Shed Maintenance)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Check general maintenance and cleaning of left and right side of picking mechanism.	0.5	0.75	Demonstrate about general maintenance and cleaning of left and right side of picking mechanism.	Oral Test & Practical demonstration	
LU2. Monitor general maintenance and cleaning of outer part of loom.	0.25	1	. Demonstrate about general maintenance and cleaning of outer part of loom.	Practical demonstration	
LU3. Check oiling and greasing of machine parts.	0	1	Check oiling and greasing of machine parts.	Practical demonstration	
LU4. Monitor general maintenance and cleaning of seal points.	0.25	0.75	Demonstrate about general maintenance and cleaning of seal points.	Practical demonstration	

Module 9 (Plan cleaning and maintenance schedule on weekly and months bases of Weaving Shed Maintenance)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Monitor oiling and greasing of inner areas	0.5	1	Check oiling and greasing of inner areas	Written Test & Practical demonstration	
LU2. Check grease points in back rest area, leno, tuck in assembly	0.25	0.75	Demonstrate about grease points in back rest area.	Practical demonstration	
LU3. Check grease points in picking area.	0.5	0.75	Check grease points in picking area.	Oral Test & Practical demonstration	
LU4. Check grease points in take up area.	0.5	0.5	Check grease points in take up area.	Oral Test Practical demonstration	
LU5. Check manual grease points in shedding area.	0.25	1	Check manual grease points in shedding area.	Practical demonstration	
LU6. Check manual grease points in cam box area.	0.5	1	Check manual grease points in cam box area.	Written test & Practical demonstration	

Module 10 (Plan cleaning and maintenance schedule on annual bases of Weaving Shed Maintenance)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Check oil change of cam box.	0.25	1	Check oil change of cam box.	Practical demonstration	
LU2. Check oil change of let off and take up.	0.5	0.5	Check oil change of let off and take up.	Practical demonstration	
LU3. Check air pressure valve parts..	0.25	1	Check oil change of plunger and pinion.	Practical demonstration	
LU4. Check oil change of tuck in and rotary leno.	0.5	1	Check oil change of tuck in and rotary leno.	Written test & Practical demonstration	

Module 11(Monitor the loom running of Weaving Shed Maintenance)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Check vibration and sound of loom.	0.25	1	Check vibration and sound of loom	Practical demonstration	
LU2. Supervise damage in all mechanism.	0.5	0.75	Demonstrate damages in shedding mechanism.	Oral Test & Practical demonstration	
LU3. . Check the pick length according to draw width.	0.25	1	Check the pick length and leno tail.	Practical demonstration	
LU4. Check selvedge faults.	0.5	1	Check selvedge faults.	Practical demonstration	
LU5. Check air pressure, air leakage and oil leakage.	0.25	1	Check air pressure and leakage.	Practical demonstration	

Module 12 (Check the substore materials of Weaving Shed Maintenance)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Check the quantity of new and used replaced machine parts.	0.25	0.75	Check the quantity of new machine parts	Written test & Practical demonstration	
LU2. Check the quantity of damaged machine Parts.	0.25	1	Check the quantity of damaged machine Parts.	Oral Test & Practical demonstration	
OLU3. Check the quantity of lubricants.	0.5	0.75	Check the quantity of lubricants.	Practical demonstration	

Module 13

(Detect the maintenance problem and removal of Weaving Shed Maintenance)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Detect the sizing faults and their types.	0.5	1	Detect and remove the sizing faults.	Written test & Practical demonstration	
LU2. Detect the Electric/Electronic faults.	0.5	1	Detect and remove the Electric/Electronic faults.	Oral test & Practical demonstration	
LU3. Detect faults of loom and their types.	0.25	0.75	Detect and remove faults of machine.	Practical demonstration	
LU4. Detect faults of material.	0.5	1	Detect and remove faults of material.	Oral Test & Practical demonstration	
LU5. Detect drawing faults	0.25	0.75	Detect and remove drawing faults	Practical demonstration	

Module 14

(Submit report the daily based and Shiftwise work of Weaving Shed Maintenance)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
LU1. Report of maintenance area.	0.25	0.75	Prepare and analyze reports of maintenance area.	Practical demonstration	
LU2. Report of production area.	0	1	Prepare and analyze report of production area	Oral test & Practical demonstration	
LU3. Report of in or out time and additional work	0.5	0.5	Prepare and analyze report of in or out time	Practical demonstration	
LU4. Report of shed pressure.	0.25	0.75	Prepare and analyze report of shed pressure.	Practical demonstration	

Supportive notes

- Assessment context
- Critical aspects
- Assessment condition
- Resources required for assessment

4. List of Tools, Machinery & Equipment

Name of Trade	Repair & Maintenance Supervisor (Weaving)
Duration	1 Year

Sr. No.	Name of Item/ Equipment / Tools	Qty.
	Tools	
1.	Cutter	1
2.	Dropper	1
3.	Knotter	1
4.	Measuring tape	1
5.	Brush	1
6.	Mixer safety kit	1
7.	Pick counting glass	1
8.	Nipper	1
9.	Cutter	1
10.	Comb	1
11.	Pressure gun	1
12.	Weaving hook	1
13.	Beam trolley	1
14.	Article trolley	1

15.	Cloth roll trolley	1
16.	Loose fabric trolley	1
17.	Weft cone trolley	1
18.	Jack trolley	1
19.	Sizing crane	1
20.	Lifter	1
21.	Go down trolley	1
Machines		
1	Rewinding machine	1
2	Rolling machine	1
3	Fold machine	1
4	Knotting machine	1
5	Bail press	1
6	Pallet packing machine	1
7	Drawing-in machine	1
8	Warping machine	1
9	Sizing machine	1
10	Weaving machine (loom)	1
11	Leno bobbin winding machine	1
Name of Trade		Repair & Maintenance Supervisor (Weaving)
Duration		1 Year

Sr. No.	Name of Consumable Supplies
1.	Oil,
2	Greases, other lubricants.
3.	Woven fabrics of different qualities.

5. Contributions for Development of This Curriculum

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