MES COURSE MODULE
IN
TEXTILES – WEAVING PREPARATION
1. Module Name          Warper – Sectional Warping
2. Sector              Textiles - Weaving preparation – Warping
3. Code                WPN 705
4. Entry Qualification  Minimum 7th Standard and 14 years of age
5. Terminal Competency  After completion of the course, the trained person
                        would be able to operate the sectional warping
                        machine and produce weavers beam for weaving.
6. Duration            400 hours
7. Course content:
   7.1 Practical Competencies
   ➢ Understanding the Warping machine and its creel.
   ➢ Understanding the pattern and creeling the cones in their respective
     places.
   ➢ Taking the ends out, passing through the tension guides and taking up to
     front and tying all ends of the section together after drawing in the reeds,
   ➢ Pulling the yarns together on the swift. Setting the section width.
     Setting the section length by considering the minimum length of
     yarns on cones.
   ➢ Leasing
   ➢ Winding the required number of sections.
   ➢ Attending the breaks and putting weaver’s knot.
   ➢ Transferring the warp sheet from swift to a weaver’s beam
   ➢ Using of safety gadgets like caps, masks, gloves and shoes.
   ➢ Always tying the sider’s bag and collecting the hard wastes in it.
   ➢ Mock drill for fire fighting and first aid.

   7.1 Under pinning Knowledge (Theory)
   ➢ Details of Sectional Warping machine, Creeling pattern and the
     quality requirements
   ➢ Importance of Sectional warping, creeling the cones as per pattern,
     setting the length per section and section width.
   ➢ Importance of maintaining uniform tension all the time.
   ➢ Knowledge of colour codification
   ➢ Knowledge of yarn count, cone weight and the weaver’s knot.
   ➢ Precautions to be taken while working
   ➢ Importance of cleanliness and personal safety
   ➢ Importance of discipline at work
   ➢ Fire fighting and first aid
   ➢ Safety gadgets in a cotton factory

8. Tools and Equipments for a batch of 20 trainees

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sectional Warping machine</td>
<td>1</td>
</tr>
<tr>
<td>Nose masks, Shoes and caps</td>
<td>20 sets</td>
</tr>
<tr>
<td>Mechanical hand knotters – Weaver’s knot</td>
<td>20 sets</td>
</tr>
<tr>
<td>Aprons with two waste collection pockets</td>
<td>20</td>
</tr>
</tbody>
</table>
1. Module Name: Warper – Beam Warping – Super High speed
2. Sector: Textiles - Weaving preparation - Warping
3. Code: WPN 706
4. Entry Qualification: Minimum 7th Standard and 14 years of age
5. Terminal Competency: After completion of the course, the trained person would be able to run a Super high speed warping machine by setting the length, adjusting the beam flanges, denting the ends through stop motions and reed.
6. Duration: 400 hours
7. Course content:
   7.1 Practical Competencies:
   - Understanding the salient features of super high speed warping machine and its Controls.
   - Understanding the pattern and creeling the cones in their respective places.
   - Taking the ends out, passing through the tension guides and taking up to front and tying all ends together after drawing in the reeds, pulling the yarns together and tying on the warp beam.
   - Setting the length by considering the minimum length of yarns on cones.
   - Attending the breaks and putting weaver’s knot.
   - Doffing the full beam and sending to sizing after recording the weight.
   - Using of safety gadgets like caps, masks, gloves and shoes.
   - Maintaining the beam record.
   - Mock drill for fire fighting and first aid.

   7.2 Under pinning Knowledge (Theory):
   - Details of Super High speed Warping machine, Creeling pattern and the quality requirements.
   - Importance of Super High speed warping, creeling the cones as per pattern, setting the length.
   - Importance of maintaining uniform tension all the time.
   - Knowledge of colour codification.
   - Knowledge of yarn count, cone weight and the weaver’s knot.
   - Precautions to be taken while working.
   - Importance of cleanliness and personal safety.
   - Importance of discipline at work.
   - Fire fighting and first aid.
   - Safety gadgets in a cotton factory.

8. Tools and Equipments for a batch of 20 trainees

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
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<tbody>
<tr>
<td>Super High speed Warping machine</td>
<td>1</td>
</tr>
<tr>
<td>Nose masks, Shoes and caps</td>
<td>20 sets</td>
</tr>
<tr>
<td>Mechanical hand knotters – Weaver’s knot</td>
<td>20 sets</td>
</tr>
<tr>
<td>Aprons with two waste collection pockets</td>
<td>20</td>
</tr>
</tbody>
</table>

1. Module Name: Front Attendant – Multi-Cylinder Sizing
2. Sector: Textiles - Weaving preparation - Sizing
3. Code
   WPN 707

4. Entry Qualification
   Minimum 7th Standard and 14 years of age

5. Terminal Competency
   After completion of the course, the trained person would be able to maintain the sizing quality by monitoring the stretch and moisture, adjusting the speed, attending broken threads, migrations, lapping, leasing and denting, gaiting empty weaver’s beam, winding on the beam, setting the tape length, monitoring the steam pressure, air pressure.

6. Duration
   500 hours

7. Course content

<table>
<thead>
<tr>
<th>Practical Competencies</th>
<th>Under pinning Knowledge (Theory)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understanding the features of Multi-cylinder Sizing machine, steam pressure and temperature in individual cylinders, stretch Controls and moisture controls.</td>
<td>Details of a Multi cylinder sizing machine, using of hoists, monitoring the pressure in drying cylinders, drying temperature, stretch and speed and moisture content.</td>
</tr>
<tr>
<td>Leasing the sheets, drawing ends through reeds, adjusting the expanding comb and setting the beam width, setting length and doffing the beam after set length.</td>
<td>Importance of sizing, leasing, denting, setting expanding comb, controlling moisture content.</td>
</tr>
<tr>
<td>Removing the condensates from the drying cylinders from time to time.</td>
<td>Importance of monitoring and maintaining pressure and temperature of individual cylinders, speed and stretch control.</td>
</tr>
<tr>
<td>Removing the migrations and lappers if any</td>
<td>Precautions to be taken while working</td>
</tr>
<tr>
<td>Using of safety gadgets like caps, gloves and shoes.</td>
<td>Importance of cleanliness and personal safety</td>
</tr>
<tr>
<td>Mock drill for fire fighting and first aid.</td>
<td>Importance of discipline at work</td>
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<tr>
<td></td>
<td>Fire fighting and first aid</td>
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<td></td>
<td>Safety gadgets in a cotton factory</td>
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<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi - Cylinder Sizing machine</td>
<td>1</td>
</tr>
<tr>
<td>Shoes, gum boots, gloves and caps</td>
<td>20 sets</td>
</tr>
</tbody>
</table>