

MACHINE MAINTENANCE

UNIT CODE: ENG/CU/TXP/CR/06/5/A

Relationship to Occupational Standards

This unit addresses the unit of competency: **Perform machine maintenance**

Duration of Unit: 130 hours

Unit Description

This unit describes the competencies required by a textile processing craft person to perform machine maintenance. It involves competencies required to maintain textile processing machine, adjust textile processing machine parts, repair textile processing machine and document maintenance operation.

Summary of Learning Outcomes

1. Maintain Textile Processing Machine
2. Adjust Textile Processing Machine Parts
3. Repair Textile Processing Machine
4. Document Maintenance Operation

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Maintain Textile Processing Machine	<ul style="list-style-type: none">• Machinery safety• Electrical safety• Introduction to maintenance• Types of maintenance• Textile processing machines• Workshop tools• Fasteners, sealant and cleaning liquid	<ul style="list-style-type: none">• Oral questions• Written tests• Observation• Practical• Individual assignments• Group assignments
2. Adjust Textile Processing Machine Parts	<ul style="list-style-type: none">• Machinery safety• Electrical safety• Mechanical systems• Electrical systems• Lubrication systems	<ul style="list-style-type: none">• Oral questions• Written tests• Observation• Practical• Individual assignments• Group assignments
3. Repair Textile Processing Machine	<ul style="list-style-type: none">• Safety• Machine installation	<ul style="list-style-type: none">• Oral questions• Written tests

	<ul style="list-style-type: none"> • Machine parts • Maintenance inventory management 	<ul style="list-style-type: none"> • Observation • Practical • Individual assignments • Group assignments
4. Document maintenance operation	<ul style="list-style-type: none"> • Documentation tools and equipment • Technical report writing for maintenance • Filing and data storage 	<ul style="list-style-type: none"> • Oral questions • Written tests • Observation • Practical • Individual assignments • Group assignments

Suggested Methods of Instruction

- Assignments to trainee(s)
- Demonstration by trainer
- Industrial visits to textile mills
- PowerPoint presentation and videos
- Practical demonstration by trainee(s)
- Illustrative diagrams and flow charts
- Discussion and focus groups

Recommended Resources

- Oil
- Grease
- Lubricants
- Cutter
- Knotter
- Nipper
- Comb
- Pick counting glass
- Trolley
- Scouring machine
- Desizing machine
- Mercerizing machines
- Washing machines
- Bleaching machines
- Mechanical finishing machine
- Chemical finishing machine
- Singeing machine
- Dyeing machine

- Printing machine
- Stationeries
- Overhead projector/ Black or white board
- Computer and its accessories
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- Overhead projector/ Black or white board
- Computer and its accessories
- Weighing balance

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