

PERFORM MACHINE MAINTENANCE

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

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.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
<p>These describe the key outcomes which make up workplace function</p>	<p>These are assessable statements which specify the required level of performance for each of the elements</p> <p><i>(Bold and italicized terms are elaborated in the Range)</i></p>
<p>1 Maintain textile processing machine</p>	<p>1.1 Machinery safety is observed according to OSH act</p> <p>1.2 Maintenance schedule is developed according manufacturer's instruction and organisation procedures</p> <p>1.3 Machine parts are inspected according to operation manual</p> <p>1.4 Machinery parts and their functions are identified according to manufacturer's catalogue</p> <p>1.5 <i>Machine operating parameters</i> are identified according to manufacturer's catalogue</p> <p>1.6 Auxiliary machines are identified according to manufacturer's catalogue</p> <p>1.7 Machine parts are lubricated and maintained according to operation manual</p>
<p>2 Adjust textile processing machine parts</p>	<p>2.1 Machinery safety is observed according to OSH act</p> <p>2.2 <i>Machinery parts</i> affecting quality are identified according to manufacturer's catalogue</p> <p>2.3 Condition of different parts of machine are inspected according to manufacturer's catalogue</p>

	<p>2.4 Machine settings are inspected according to manufacturer's catalogue</p> <p>2.5 Machine settings are changed according to manufacturer's catalogue</p>
3 Repair textile processing machine	<p>3.1 Machinery safety is observed according to OSH act</p> <p>3.2 Textile processing machine is disassembled according to operation procedures and manufacturer's catalogue</p> <p>3.3 Textile processing machine parts are examined for defects according to manufacturer's catalogue</p> <p>3.4 Machine parts are cleaned and lubricated according manufacturer's catalogue</p> <p>3.5 Broken or malfunctioning components are repaired/replaced according to manufacturer's catalogue</p> <p>3.6 Textile processing machine is reassembled according to manufacturer's catalogue</p> <p>3.7 Manufacturer's manual is studied to determined correct installation according to manufacturer's catalogue</p> <p>3.8 Newly reassembled textile processing machine is restarted and operated according to operation procedure and manufacturer's catalogue</p> <p>3.9 Test results are recorded and analysed according to organisation procedure and manufacturer's catalogue</p> <p>3.10 Inventory of parts used is stored according to organisational procedures</p>
4 Document maintenance operation	<p>4.1 Documentation tools are obtained according to organisational procedures</p> <p>4.2 Machine maintenance is documented according to organisational procedures</p> <p>4.3 Report is generated according to organizational procedures</p>

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. Machine operating parameters may include but is not limited to:	<ul style="list-style-type: none"> • Pressure gauges • Fabric tension • Roller gauges
2. Machinery parts may include but is not limited to:	<ul style="list-style-type: none"> • Cams • Rollers • Guides • Wheels
3. Textile processing machine may include but is not limited to:	<ul style="list-style-type: none"> • Pre-treatment machines • Dyeing machines • Printing machines • Textile finishing machines

REQUIRED KNOWLEDGE

The individual needs to demonstrate knowledge of:

- Machine maintenance
- Pre-treatment machines
- Dyeing machines
- Printing machines
- Textile finishing machines
- Safety
- Documentation
- Mathematics understanding
- Physics
- Textile reference standards

REQUIRED SKILLS

The individual needs to demonstrate skills in:

- Carry out maintenance
- Pre-treatment machines operation
- Dyeing machines operation
- Printing machines operation
- Textile finishing machines operation
- Manage work efficiently
- Time management

- Troubleshooting
- House keeping
- Effective communication
- Application of safety procedures
- Energy conservation
- Good decision making
- Time management
- Report writing
- Record keeping

EVIDENCE GUIDE

This provides advice on assessment and must be in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical Aspects of Competency.	1.1 Maintained textile processing machine 1.2 Adjusted textile processing machine parts 1.3 Repaired textile processing machine 1.4 Documented maintenance operation
2. Resource Implications.	2.1 Oil 2.2 Grease 2.3 Lubricants 2.4 Cutter 2.5 Knotter 2.6 Nipper 2.7 Comb 2.8 Pick counting glass 2.9 Trolley 2.10 Scouring machine 2.11 Desizing machine 2.12 Mercerizing machines 2.13 Washing machines 2.14 Bleaching machines 2.15 Mechanical finishing machine 2.16 Chemical finishing machine 2.17 Singeing machine 2.18 Dyeing machine 2.19 Printing machine 2.20 Stationeries 2.21 Overhead projector/ Black or white board 2.22 Computer and its accessories
3. Methods of Assessment.	Competency may be assessed through: 3.1 Practical 3.2 Observation 3.3 Questionnaire

	<p>3.4 Case studies</p> <p>3.5 Written examinations</p> <p>3.6 Oral presentation</p>
4. Context of Assessment.	Competency may be assessed individually in an actual workplace or in work-simulated conditions within accredited institutions or during industrial attachment.
5. Guidance information for assessment.	This unit may be assessed on an integrated basis with others within this occupational sector.

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