

# TEXTILE PRINTING

**UNIT CODE: ENG/CU/TXP/CR/03/5/A**

## **Relationship to Occupational Standards**

This unit addresses the unit of competency: **Produce printed fabrics**

**Duration of Unit:** 130 hours

## **Unit Description**

This unit describes the competencies required by a textile processing craft person to produce printed fabrics. It involves competencies required to obtain fabric for printing, prepare printing recipe prepare print screen, set up printing machine, operate printing machine and document printing process.

## **Summary of Learning Outcomes**

1. Obtain fabric for printing
2. Prepare printing recipe
3. Prepare print screen
4. Set up printing machine
5. Operate printing machine
6. Document printing process.

## **Learning Outcomes, Content and Suggested Assessment Methods**

<b>Learning Outcome</b>	<b>Content</b>	<b>Suggested Assessment Methods</b>
1. Obtain fabric for printing	<ul style="list-style-type: none"><li>• Classification of fabric</li><li>• Properties of the fabric</li><li>• Safety Precautions</li><li>• Uses of the fabric</li></ul>	<ul style="list-style-type: none"><li>• Oral questions</li><li>• Written tests</li><li>• Observation</li><li>• Practical</li><li>• Individual assignments</li><li>• Group assignments</li><li>•</li></ul>
2. Prepare printing recipe	<ul style="list-style-type: none"><li>• Printing recipes</li><li>• Printing methods</li><li>• Printing recipe components</li><li>• Standard shade references</li><li>• Printing chemicals involved</li><li>• Safety procedures</li></ul>	<ul style="list-style-type: none"><li>• Oral questions</li><li>• Written tests</li><li>• Observation</li><li>• Practical</li><li>• Individual assignments</li><li>• Group assignments</li></ul>

3. Prepare print screen	<ul style="list-style-type: none"> <li>• Types of Emulsion</li> <li>• Screen cleaning techniques</li> <li>• Screen drying techniques</li> <li>• Types of artwork</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul>
4. Set up printing machine	<ul style="list-style-type: none"> <li>• Safety Precautions</li> <li>• Printing machine</li> <li>• Printing machine parameters</li> <li>• Printing tools and consumables</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul>
5. Operate printing machine	<ul style="list-style-type: none"> <li>• Safety precautions</li> <li>• Machinery Operational Manuals</li> <li>• Printing Faults</li> <li>• Printing wastes</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul>
6. Document printing process.	<ul style="list-style-type: none"> <li>• Technical Report writing</li> <li>• Filing and data storage</li> <li>• Documentation tools and equipment</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul>

### Suggested Methods of Instruction

- Theory facilitated by trainer
- Demonstration by trainer
- Practical work by trainee(s)
- Group discussions
- Exercises by trainee(s)
- Field trips to textile mills

### Recommended Resources

- Fabric
- PPE
- Printing chemicals
- Printing machine

- Washing chemicals
- Thermometer
- Stationeries
- Overhead projector/ Black or white board
- Computer and its accessories
- Weighing balance

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