TEXTILE PRE-TREATMENT

UNIT CODE: ENG/CU/TXP/CR/01/5/A

Relationship to Occupational Standards

This unit addresses the unit of competency: Produce pre-treated textiles

Duration of Unit: 150 hours

Unit Description

This unit describes the competencies required by a textile processing craft person to produce pretreated textiles. It involves competencies required to obtain grey fabric, inspect grey fabric, carry out singeing, carry out desizing, carry out scouring, carry out bleaching, carry out mercerization, carry out washing and document pre-treatment process.

Summary of Learning Outcomes

- 1. Obtain grey fabric
- 2. Inspect grey fabric
- 3. Carry out singeing
- 4. Carry out desizing
- 5. Carry out scouring
- 6. Carry out bleaching
- 7. Carry out mercerization
- 8. Carry out washing
- 9. Document pre-treatment process

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Obtain Grey fabric	 Classification of fabrics Classification of yarns Safety procedures Operation standards Characteristics of grey fabric 	 Oral questions Written tests Observation Practical Individual assignments Group assignments
2. Inspect Grey fabric	 Inspection techniques Inspection tools Inspection equipment Safety measures Inspection procedure 	Oral questionsWritten testsObservationPractical

3. Carry out singeing	 Objectives of singeing Singeing methods Singeing process Merits and demerits of singeing Precautions of singeing 	 Individual assignments Group assignments Oral questions Written tests Observation Practical Individual assignments Group assignments
4. Carry out desizing	 Objectives of desizing Desizing methods Desizing mechanism/ process Precautions during desizing Desizing faults 	 Oral questions Written tests Observation Practical Individual assignments Group assignments
5. Carry out scouring	 Objectives of scouring Scouring methods Scouring mechanism/ process Precautions of scouring. Scouring faults 	 Oral questions Written tests Observation Practical Individual assignments Group assignments
6. Carry Out bleaching	 Aim of bleaching Bleaching methods Types of bleaching agents Mechanism of bleaching Bleaching precautions Bleaching faults 	 Oral questions Written tests Observation Practical Individual assignments Group assignments
7. Carry out mercerization	 Objectives of mercerization Mercerization process Significance of different steps in mercerization cycle Mercerization control parameters Effects of mercerization Mercerizing machine 	 Oral questions Written tests Observation Practical Individual assignments Group assignments
8. Carry out washing	 Objectives of washing Washing techniques Washing mechanism Types of washing agents 	Oral questionsWritten testsObservationPractical

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		Individual assignmentsGroup assignments
9. Document pre- treatment process	 Documentation tools and equipment Technical report writing for maintenance Filing and data storage 	 Oral questions Written tests Observation Practical Individual assignments Group assignments

Suggested Methods of Instruction

- Instructor led facilitation of theory
- Illustrative diagrams
- Practical work by trainee(s)
- Group discussions
- Exercises by trainee(s)
- Industrial visits to textile mills pre-treatment department
- Power point presentation and videos

Recommended Resources

- Tools, Equipment, Materials and supplies
- Fabric lot
- Desizing machine
- Singeing machine
- Bleaching machine
- Scouring machine
- Mercerizing machine
- Washing machine
- Bleaching chemicals
- Washing chemicals
- Mercerizing chemicals
- Scouring chemicals
- pH scale
- PPE
- Thermometer
- Rotating batcher
- Fabric Beams
- Documentation tool and equipment
- Stationeries

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

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