

TEXTILE WET PROCESSESING

UNIT CODE: ENG/CU/TEX/CR/06/6/A

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Process Textile Fabric

Duration of Unit: 150 hours

Unit description

This unit describes the competencies required by a textile technician to process textile fabric. It involves competencies required to perform textile pre-treatment, textile dyeing, textile printing and textile finishing, control production and quality parameters

Summary of Learning Outcomes

1. Perform textile pre-treatment
2. Perform textile dyeing
3. Perform textile printing
4. Perform textile finishing
5. Control production and quality parameters

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Perform textile pre-treatment	<ul style="list-style-type: none">• Objectives of pre-treatment• Safety operations• Textile Chemical Processing for the Fibres• Pre-treatment machines• Pre-treatment processes• Singeing of fabric• Desizing• Scouring• Mercerizing• Bleaching• Pre-treatment procedures	<ul style="list-style-type: none">• Practical• Observation• Written tests• Oral interviews
2. Perform textile dyeing	<ul style="list-style-type: none">• Safety operations• Colouring Materials• Colour preparation	<ul style="list-style-type: none">• Written tests• oral interview• presentations

	<ul style="list-style-type: none"> • Dyeing operation • Dyeing methods • Process control • Quality control 	<ul style="list-style-type: none"> • practical • lab reports
3. Perform textile printing	<ul style="list-style-type: none"> • Safety operations • Printing Patterns • Printing Operations • Screen preparation • Process control • Quality control 	<ul style="list-style-type: none"> • written tests • oral interview • presentations • practical • lab reports
4. Perform textile finishing	<ul style="list-style-type: none"> • Safety operations • Classification of Finishes • Finishing machinery • Finishing methods • Chemical finishing • Mechanical finishing • Heat setting finishing • Finishing process monitoring and control 	<ul style="list-style-type: none"> • written tests • oral interview • presentations • practical • lab reports
5. Control production and quality parameters	<ul style="list-style-type: none"> • Properties of finished fabric • Control process parameters • Testing for conformity to quality 	<ul style="list-style-type: none"> • Practical • Observation • Written tests • Oral interviews • Individual and group assignments • Projects and lab report • presentation

Suggested Methods of Instruction

- Presentations and practical demonstrations by trainer;
- Guided learner activities and research to develop underpinning knowledge;
- Supervised activities and projects in a workshop;
- Visiting lecturer/trainer from the Plants service and repair sector;
- Industrial visits.

Recommended Resources

- Fibres
- Yarns
- Fabrics
- Garments
- Grey inspection machine
- Shearing machine
- Singeing machine
- Desizing
- Scouring and washing
- Bleaching
- Mercerizing
- Dry and heat setting
- Desizing chemicals
- Scouring chemicals
- Bleaching chemicals
- Mercerizing chemicals
- Steam
- Screen preparation equipment
- Printing machines
- Photo Emulsion
- Clamp Hinges
- Rubber Gloves
- Heavy Duty Stapler
- Frame
- Scoop Coater
- Squeegee
- Screen Fabric
- Curing machines
- Washing machines
- Drying
- Print paste
- Screen mesh/ rotary/ stencil/ digital computers
- Textile chemicals finishing machines
- Stenter.

- Compactor.
- Dryer.
- Active Stabilizing Dryer.
- Slitter.
- Squeezer.
- Fabric Turning.
- Seuding.
- Dry finishing chemicals machines
- Chemicals required for finishing

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