

PERFORM TEXTILE FINISHING

UNIT CODE: ENG/OS/TXP/CR/04/5/A

UNIT DESCRIPTION

This unit describes the competencies required by a textile processing craft person to perform textile finishing. It involves competencies required to obtain fabric for finishing, set up finishing machine, carry out mechanical finishes, carry out chemical finishes and document finishing process.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function	These are assessable statements which specify the required level of performance for each of the elements <i>(Bold and italicized terms are elaborated in the Range)</i>
1. Obtain Fabric for Finishing	1.1 Work order is received and interpreted according to customer requirements 1.2 Requisition for fabric is prepared and issued according to organisational procedures 1.3 Fabric is obtained according to organisational procedures
2. Set Up Finishing Machine	2.1 Safety is observed according to OSH act 2.2 Machine operation manual is obtained according to organisational procedures 2.3 Necessary tools and consumables are obtained according to operation manual 2.4 Fabric beam is obtained according to product specifications. 2.5 Fabric beam is mounted onto finishing machine according to manufacturer's manual and product design. 2.6 Finishing machine parameters are set up according to operation manual
3. Carry out Mechanical Finishes	3.1 Safety is observed according to OSH act 3.2 Chemical finishes recipe is prepared according to organisational procedures 3.3 Fabric is loaded onto finishing machine according to operation procedure 3.4 Mechanical finishing machine parameters are set according to operation manual

	<p>3.5 Mechanical finishing machine is operated according to operation procedures</p> <p>3.6 Mechanical finishing process parameters are monitored according to SOP.</p> <p>3.7 <i>Mechanical finishing faults</i> are identified and rectified where possible according to SOP</p> <p>3.8 Finished fabric rolls are doffed according to SOP.</p> <p>3.9 Finished fabric rolls are stored according to organizational procedures.</p>
4. Carry out Chemical Finishes	<p>4.1 Safety is observed according to OSH act</p> <p>4.2 Chemical finishes recipe is prepared according to organisational procedures</p> <p>4.3 Fabric is loaded onto finishing machine according to operation procedure</p> <p>4.4 Chemical finishing machine parameters are set according to operation manual</p> <p>4.5 Chemical finishing machine is operated according to operation procedures</p> <p>4.6 Chemical finishing process parameters are monitored according to SOP.</p> <p>4.7 <i>Chemical finishing faults</i> are identified and rectified where possible according to SOP</p> <p>4.8 Finished fabric rolls are doffed according to SOP.</p> <p>4.9 Finished fabric rolls are stored according to organizational procedures.</p>
5. Document Finishing Process	<p>5.1 Documentation tools are obtained according to organisational procedures</p> <p>5.2 Finishing process quality control tests are documented according to organisational procedures</p> <p>5.3 Finishing process is documented according to organisational procedures</p> <p>5.4 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. Necessary tools and equipment may include but is not limited to:	<ul style="list-style-type: none"> • Grease gun • Oil • Grease
2. Mechanical finishing faults may include but is not limited to:	<ul style="list-style-type: none"> • Pilling • Pin holes • Selvage torn • Tear fabric • Inadequate pressing • Loose threads
3. Chemical finishing faults may include but is not limited to:	<ul style="list-style-type: none"> • Decolorized patch • Water spot • Unwanted marks on fabrics

REQUIRED KNOWLEDGE

The individual needs to demonstrate knowledge of:

- Safety
- Mechanical finishing faults
- Chemical finishing faults
- Fabric properties
- Different kinds of fabrics
- Required fabric characteristics
- Required fabric type and properties
- Fabric quality
- Standard operating procedures (SOP) to follow
- Surface inspection
- Basic quantitative analysis test and methods
- Fabric grading
- Mechanical finishing machines parts and components
- Mechanical finishing machines operation
- Mechanical finishing machines parameters
- Chemical finishing machines parts and components
- Chemical finishing machines operation
- Chemical finishing machines parameters
- Documentation
- Procedure for safe disposal of waste materials
- Mathematics understanding
- Physics
- Fabric finishing reference standards

REQUIRED SKILLS

The individual needs to demonstrate skills in:

- Observe safety
- Rectify Mechanical finishing faults
- Rectify Chemical finishing faults
- Identify Fabric properties
- Inspect fabric quality
- Observe Standard operating procedures (SOP)
- Perform Surface inspection
- Carry out basic quantitative analysis test and methods
- Perform fabric grading
- Identify mechanical finishing machines parts and components
- Operate mechanical finishing machines
- Identify mechanical finishing machines parameters
- Identify chemical finishing machines parts and components
- Operate chemical finishing machines.
- Identify chemical finishing machines parameters
- Communication skills– oral/written
- Manage work efficiently
- Time management
- Supply chain operations
- Troubleshooting
- House keeping
- Effective communication
- 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 Obtained fabric for finishing 1.2 Set up finishing machine 1.3 Carried out mechanical finishes 1.4 Carried out chemical finishes 1.5 Documented finishing process
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2 Resource Implications.	2.1 Chemical finishing machines 2.2 Mechanical finishing machines 2.3 Chemical reagents 2.4 Fabric 2.5 Reference standards 2.6 PPEs 2.7 Documentation tool and equipment
3 Methods of Assessment.	<i>Competency may be assessed through:</i> 3.1 Practical 3.2 Observation 3.3 Questionnaire 3.4 Case studies 3.5 Written examinations 3.6 Oral presentation
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.