PRODUCE KNITTED FABRIC

UNIT CODE: ENG/OS/TEX/CR/04/6/A

Unit description

This unit describes the competencies required by a textile technician to produce knitted fabrics. It involves competencies required to produce warp beam, set up knitting machine, operate knitting machines and control knitting production and quality parameters.

ELEMENT These describe the key outcomes which make up workplace function 1. Produce warp beam	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements (Bold and italicized terms are elaborated in the Range) 1.1 Safety precautions are observed according to
	 occupational health and safety standards (OSHA) 1.2 Warping pattern is obtained and interpreted according to design specifications. 1.3 Yarn packages are obtained according to design specifications. 1.4 Yarn packages are loaded to creel according to product specifications 1.5 Warping machines are set according to machine specifications 1.6 Suitable beam is loaded on warping machine according to product specifications. 1.7 Yarns are withdrawn from warp creel onto empty beam/warping drum according to product specifications. 1.8 Warping machine is operated according to SOP. 1.9 Production is monitored continuously according to operational instructions 1.10 Warping faults are identified and corrected according to SOP 1.11 Warped beam is doffed off and stored according to organizational procedures. 1.13 Resources requirements are allocated according to work load

ELEMENTS AND PERFORMANCE CRITERIA

2.	Set up knitting machine	2.1 Safety precautions are observed according to
	1 0	occupational health and safety standards (OSHA)
		2.2 Knitting pattern specification is obtained and
		interpreted
		2.3 Knitting machine is identified according to
		organizational procedure
		2.4 Feed material is identified and loaded onto knitting
		machine according to product specification
		2.5 Varns are passed through guides and tensioners
		according to pattern specification
		2.6 Knitting machine setting points are identified
		2.0 Kinting machine setting points are identified
		2.7 Knitting maching is set according to pattern
		2.7 Kinting machine is set according to pattern
2	Onorata Imitting	2.1 Machine sofety and exerction proceedures are
5.		s.1 Machine safety and operation procedures are
	machines	
		2.2 Knitting machine is operated to workplace
		3.2 Kinting machine is operated to workplace
		procedure
		3.5 Knitting process is monitored according to SOP.
		3.4 Knitting faults are identified and rectified where
		possible according to SOP
		3.5 Major faults are reported according to SOP
		3.6 Grey knitted fabric rolls are dotted according to
		SOP.
		3.7 Grey knitted fabric rolls are stored according to
		organizational procedures.
		3.8 Knitting waste is disposed according to
		organisational procedure
		3.9 Knitting operations are documented according to
		organizational procedures
4.	Control knitting	4.1 Safety precautions are observed according to
	production and quality	occupational health and safety standards (OSHA)
	parameters	4.2 Resources requirements are allocated according to
	I	work load
		4.3 <i>Ouality parameters</i> are controlled according to
		product specifications.
		4.4 Product in process is inspected according to quality
		requirement
		4.5 Production process is controlled according to
		production requirement
		r'' auton requirement

4.6 Efficient production requirements are identified
according to work plan
4.7 Process non-conformance is identified and
documented according to workplace requirements

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. Feed material may include but not limited	Cone Worr hoor	
to:	• warp beam	
2. Knitting machine is	Yarn tension	
set may include but	• GSM	
not limited to:	• Needle positioning	
	• Cams	
3. Knitting faults may	Dropped loops	
include but not limited	• Dropped stitch	
to:	• Press off stitches	
	 Foreign materials 	
	• Stains	
	• Loop marks	
4 Quality parameters	Tension	
may include but not	Speed	
limited to:	Pressure	
	Temperature	
	• Humidity	

REQUIRED SKILLS

The individual needs to demonstrate skills in:

- Knitting machine operations
- Threading
- Interpreting and following information on written job instructions, manufacturer specifications, standard operating procedures, reports and other applicable reference documents

- Communication oral/written
- Identifying non-compliances
- Completing standard workplace forms, workplace reports and other applicable documents
- Checking for conformance to specifications
- Problem solving
- Creativity and innovation

REQUIRED KNOWLEDGE

The individual needs to demonstrate knowledge of:

- Properties of textile raw materials
- Knitting pattern
- Knitting principle
- Types of needles
- Knitting machines
- Quality control parameters
- Identification of knitted textile material defects and faults
- Safety practices and procedures
- Material handling
- Procedure for safe disposal of waste materials

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	Assessment requires evidence that the learner	
	or competency.	1.1 Performed yarn warping	
		1.2 Interpreted knitting pattern	
		1.3 Performed knitting operations	
		1.4 Operated knitting machines	
		1.5 Controlled production and quality parameters	
2.	Resource	The following resources should be provided:	
	Implications.		
	Implications.	2.1 Winding machines	
	Implications.	2.1 Winding machines2.2 Warping machines	
	Implications.	2.1 Winding machines2.2 Warping machines2.3 Knitting patterns	
	Implications.	2.1 Winding machines2.2 Warping machines2.3 Knitting patterns2.4 Testing equipment	
	Implications.	2.1 Winding machines2.2 Warping machines2.3 Knitting patterns2.4 Testing equipment2.5 Knitted materials	

3.	Methods of	Competency may be assessed through:
	Assessment.	3.1 Practical
		3.2 Observation
		3.3 Questionnaire
		3.4 Case studies
		3.5 Written examinations
		3.6 Oral presentation
4.	Context of	Competency may be assessed:
	Assessment.	4.1 On-the-job
		4.2 Off-the –job
		4.3 During Industrial attachment
5.	Guidance	This unit may be assessed on an integrated basis with others
	information for	within this occupational sector.
	assessment.	

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