FABRIC KNITTING

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

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Produce Knitted Fabric

Duration of Unit: 150 hours

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 knitted production and quality parameters.

Summary of Learning Outcomes

1. Produce warp beam
2. Set up knitting machine
3. Operate knitting machines
4. Control knitted production and quality parameters

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Set up knitting machines	- Safety precautions in knitting - Importance of knitting - Identification of knitting elements - Knitting yarn properties - Types of knitting machines - Properties of different knitting machines - Knitting principles - knitting needles - Knitting machine setting points - Knitting machine settings - Knitting machine parts	- Practical test - Observation - Written tests - Oral questioning

2. Produce warp beam	• Procedure for warping • Types of warping • Safety precautions in warping • Warp knitting machines • Warping efficiency • Warping faults and their remedies	• Practical test • Observation • Written test
3. Operate knitting machine	• Knitting machines • Construction of knitted fabric • Knitting machine operation • Knitting faults and their remedies • knitting process monitoring and control • Withdraw the roll fabric and weighing	• Practical • Observation • Written tests • Assignments • Written reports • Oral questioning
4. Control production and quality parameters	• knitting Production planning • knitting Quality management • knitting Maintenance management • knitting faults and their remedies	• Practical • Observation • Written exams • Assignments • Written reports • Oral interviews

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 knitting sector;
- Industrial visits.

Recommended Resources

- Yarns
- Machine knitting elements
- Machines
- Specialised knitting tools