



Australian Government

Department of Education, Employment and Workplace Relations

LMTTX2019B Undertake carding operations

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge to undertake carding operations to process fibres for spinning operations or non-woven web forming operations

Application of the Unit

Application

The unit applies to the preparation, operation, monitoring and adjusting of carding machines and equipment used to process fibres. Fibres may be natural or synthetic to be used in woven, knitted, tufted and nonwoven products.

Work is conducted according to defined procedures.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- standard operating procedures
- work instructions
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling

This unit requires the application of skills associated with planning and organising for the safe and efficient use of carding technology. This unit also requires the ability to check the quality of products, identify and communicate inconsistencies or other problems and complete workplace documentation. Self management skills are applied to ensure workplace and quality standards are achieved.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Set up machine and load fibres	1.1 Production specifications are checked to identify requirements for carding. 1.2 Raw fibres are received and set up for loading into feed sheet. 1.3 Carding machine is set for operation. 1.4 Non-conforming materials are reported. 1.5 Area around machine is cleaned during and on completion of setting and loading.
2 Operate and monitor carding machine	2.1 Carding machine is started and stopped according to manufacturer requirements and OHS practices. 2.2 Machine and equipment is monitored to ensure correct operation. 2.3 Blending is monitored to ensure blending consistency and feed uniformity. 2.4 Carding operation is monitored to ensure correct feed rate and quality of web offtake. 2.5 Waste is sorted. 2.6 Environmental requirements and procedures concerned with waste, pollution and recycling of materials are correctly applied at all stages of the process. 2.7 Minor product process and machine faults are identified and corrected where necessary to meet specified requirements. 2.8 Major machine faults are reported.
3 Remove carded fibres from machine	3.1 Carded fibres are checked against quality standards. 3.2 Carded fibres are unloaded or removed according to manufacturer specifications and workplace practices. 3.3 Carded fibres are sent for despatch or further processing. 3.4 Area is cleaned to ensure work environment is maintained in a safe and productive manner.
4 Complete records	4.1 Production records and other documentation are accurately completed.

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Demonstrates knowledge of:

- procedures and guidelines for safe operation of carding machine
- typical fault conditions and related fault finding procedures
- blending and carding processes
- air filtration and waste management systems
- machine maintenance and repair techniques
- technical specifications manuals
- quality standards and practices
- OHS practices, including hazard identification and control measures
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- check machine safety equipment and report any faults
- prepare fibre for carding
- load and unload materials according to machine and workplace practices
- start and stop machines according to specifications
- monitor machine operations, including machine production readings
- recognise, rectify and report machine faults or problems as required
- clean machines as required
- check machine maintenance records
- recognise fault conditions
- confirm compliance to operational specifications
- read, interpret and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- communicate within the workplace
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence	Demonstrates skills and knowledge to: • check machine settings to meet production requirements • operate and monitor carding machine involving defined procedures and methods • make minor adjustments • check product samples against standards • load and unload products according to workplace practices and production requirements • complete records accurately and completely • apply OHS practices in work operations
Consistency in performance	Consistently applies skills and knowledge when: • organising work • completing tasks according to instructions • working systematically with attention to detail • identifying improvements and avoiding damage • using workplace practices • using OHS practices • recording and reporting accidents and incidents • assessing operational readiness of equipment • recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	This unit may be assessed independently or in combination with other relevant units.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Legislative/regulatory requirements All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.

OHS practices OHS practices include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and may relate to:

- manual handling techniques
- standard operating procedures
- personal protective equipment
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- environmental practices

Machine and equipment may include

- burr handling systems
- air filtration equipment
- carding machine
- doffer waste system
- blending systems
- compressed air

Waste may include

- processed burr
- contaminants
- processed sweepings
- machine waste

Unit Sector(s)

Sector All