



Australian Government

Department of Education, Employment and Workplace Relations

LMTEW2010A Perform wool carbonising

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge required to perform wool carbonising.

Application of the Unit

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This unit applies to the setting up and operation of wool carbonising machines and associated equipment. Work is conducted under routine supervision with the exercise of initiative, discrimination and judgement. Occasional supervision of other personnel may be required.

Operator maintenance of wool carbonising machines and equipment, which may be scheduled or unscheduled and may vary according to enterprise requirements and level of automation ranging from manual to automatic equipment.

Work conducted in a variety of environments, such as:

- operational workplace activities
- hazardous, controlled or exposed conditions

Work may be conducted in small to large scale enterprises and may involve individual and team activities. Work is performed within defined procedures under direct supervision.

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 the safe and effective use of wool carbonising processes and technology. This unit also requires an ability to interpret, document and communicate job related information, check the quality of outcomes and identify and address problems relating to own work.

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 Operate wool carbonising machines and associated equipment	1.1 All necessary settings and preparation for wool scouring machine and equipment operation are identified and assessed in accordance with specifications and workplace standard procedures 1.2 Work area around carbonising machines or plant and associated equipment is cleaned and maintained to meet workplace and OHS practices 1.3 Carbonising machines or plant is started 1.4 Bowls are filled with water and additives 1.5 Carbonising machines or plant is stopped or shut down in accordance with all safety and workplace standard operating procedures
2 Carry out operator maintenance	2.1 Minor running problems are identified, corrected by the operator where appropriate, and reported in accordance with workplace and equipment manufacturer procedures 2.2 Major machine or plant or product faults are reported 2.3 Minor maintenance and cleaning are performed in accordance with manufacturer specifications and workplace procedures
3 Control process variables	3.1 Chemicals are prepared, mixed and changed in accordance with manufacturer specifications, workplace and safety procedures 3.2 Water levels and temperatures are regularly monitored and adjusted where necessary to ensure correct processing 3.3 All flow rates are monitored and adjusted where necessary in accordance with blend specification and workplace standard procedures 3.4 Visual inspection of machine is routinely conducted to ensure efficient operation
4 Monitor product quality	4.1 Quality requirements for the wool are correctly identified and applied at all stages of the process 4.2 Wool flow is monitored to meet workplace standard operating procedures 4.3 Wool quality is visually checked to ensure standard is maintained 4.4 Any deviations from normal are recognised, isolated and reported 4.5 Environmental requirements and procedures concerned with waste, pollution and recycling of materials are correctly applied at all stages of the process
5 Communicate production information	5.1 Records and other documentation are clearly and accurately completed 5.2 Information from other operators, shifts and supervisory personnel regarding production status and problems is accurately

ELEMENT**PERFORMANCE CRITERIA**

interpreted by the operator

5.3 Information regarding production status and problems is accurately communicated to other operators, shifts and supervisory personnel

Required Skills and Knowledge

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

Demonstrates knowledge of:

- principles of operating wool carbonising machines and associated equipment
- machine setting and adjustment requirements
- product quality standards
- safety and environmental aspects of relevant workplace processes
- general housekeeping policies and procedures including relevant cleaning agents and equipment
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- practices for recording and reporting

Demonstrates skills to:

- set and operate machines
- perform operator maintenance of machines and work area
- use relevant hand tools
- use cleaning agents and dispose of waste products
- document and transfer information
- 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 to be considered

Demonstrates skills and knowledge to:

- comply with all relevant safety requirements, including procedures for working with chemicals used in the carbonising process
- interpret work orders and product requirements
- operate wool carbonising machine and associated equipment
- monitor and control processes and operation of wool carbonising machine and associated equipment, in conjunction with application of quality standards criteria and recognition of non-conforming outcomes
- perform operator maintenance of wool carbonising machine and associated equipment including settings and adjustments
- perform operator maintenance of work area
- document and communicate work related information including reporting of non-conforming outcomes and other problems

Consistency in performance

Consistently applies skills and knowledge when:

- organising work
- completing tasks
- identifying improvements
- using workplace practices
- using OHS practices
- recording and reporting accidents and incidents
- assessing operational readiness of equipment used and work processes
- recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions
- completing work systematically with attention to detail without damage to goods and equipment

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.
Wool carbonising machines and associated equipment may include	• wool carbonising/scouring machines • scour and neutralising train • conveyors • dryers • scales • control panels • waste disposal and dust extraction systems • dusters and crushers • blending and opening systems
Materials, hand tools and equipment may include	• cleaning equipment • detergents and other chemicals • hand trolleys • pallet trucks
OHS practices	OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and may include: • 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 • other OHS practices relevant to the job and enterprise

Unit Sector(s)

Sector Textile Production