



Australian Government

Department of Education, Employment and Workplace Relations

LMTTX2010B Load and operate dyeing equipment

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge to load and operate dyeing equipment.

Application of the Unit

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The unit applies to the preparation of dye mix, loading fabrics or yarn, operations, monitoring and unloading of materials in a dye house. Dyeing may be conducted at the raw material stage before spinning, weaving or knitting, at the hanking stage after yarn has been spun or at the final fabric production stage.

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 dyeing machines. This unit also requires the ability to check the quality of outcomes, 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 and load machine	1.1 Dye is mixed according to dye worksheet using correct measuring devices and personal protective equipment. 1.2 Dye worksheet is checked and if required entered into the dyeing machine. 1.3 Dye and dyeing chemicals are loaded into the tank or machine according to OHS practices. 1.4 Yarn or fabric is weighed and loaded for dyeing according to specifications. 1.5 Non-conforming materials are reported. 1.6 Area around dye tank or machine is kept clean during setting and loading.
2 Operate and monitor dyeing machine	2.1 Dyeing machine is started and stopped according to manufacturer requirements. 2.2 Dyeing operations are monitored to ensure conformance with dye worksheet. 2.3 Waste is sorted. 2.4 Tank or machine is cleaned when required. 2.5 Minor faults are identified and corrected where necessary to meet specified requirements and are reported. 2.6 Major machine faults or incorrect dyeing are reported.
3 Complete dyeing operations	3.1 Yarn or fabric is unloaded. 3.2 Product is despatched to next process. 3.3 Cleaning of area is completed to ensure work environment is maintained in a safe and productive manner. 3.4 Production records and other documentation are accurately completed.
4 Check dye outcomes	4.1 Yarn or fabric is checked against quality standards for dye colouring. 4.2 Yarn or fabric is assessed for faults and non-conformances. 4.3 Yarn or fabric dyeing faults are rectified or reported.

Required Skills and Knowledge

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 dyeing equipment
- typical fault conditions and related fault finding procedures
- dyeing principles
- machine and tank minor 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 safety equipment and evacuation procedures
- handle dangerous chemicals
- correctly use personal protection equipment
- report any faults
- accurately measure quantities for dye mix
- select and use the correct liquid and solids measuring instruments and equipment
- prepare yarn or fabric for dyeing
- recognise, rectify and report faults or problems
- clean machines and tanks as required
- check machine maintenance records
- 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 to be considered

Demonstrates skills and knowledge to:

- interpret production dyeing orders and schedules
- prepare dye solutions
- check machine settings and tank solutions to meet production requirements
- monitor operations according to defined procedures and methods
- make minor adjustments
- trouble shoot unforeseen dying incidents
- check product against quality standards
- load and unload products according to workplace practices
- 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.
Product requirements may include	• colour • treatment
Machine operations may include	• dyeing • drying • washing • treatments • atmospheric dyeing • pressure dyeing • dyeing regime (temperature, times, dye, chemicals, additions) • dye uptake • levelness • binding, fixation • discharge, effluent
Faults may include	• inconsistent colouring • marks • contamination
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

Unit Sector(s)

Sector Textile Production