



Australian Government

Department of Education, Employment and Workplace Relations

LMTHL3002A Determine tanning requirements for hide, skin and leather

Revision Number: 1

LMTHL3002A Determine tanning requirements for hide, skin and leather

Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge required to determine tanning requirements for various hides, skins and leathers used in the production of leather goods.

Application of the Unit

Application of the Unit

This unit applies to reviewing quality of hides, skins and leathers and determining specific requirements for tanning. It includes colour and colour penetration, chemicals and chemical mixing and problem solving. Tanning activities may relate to the following processes:

- deliming
- bating
- pickling
- tanning

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 requirements and processes for tanning hide, skin or leather. This unit also requires an ability to interpret and document processing information, check the quality of tanning outcomes and identify tanning problems. Self management skills are used to ensure work complies with workplace requirements.

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 Confirm quality	1.1 Type of leather is confirmed 1.2 Characteristics of leather are confirmed 1.3 Grading of leather is confirmed 1.4 Quality of leather is confirmed 1.5 Leather is assessed for tanning
2 Confirm processing requirements	2.1 Customer requirements are identified and confirmed 2.2 Processing details are obtained from production information 2.3 Production planning priorities are identified 2.4 Processing requirements for tanning are confirmed
3 Determine tanning specifications	3.1 Chemicals used for tanning in leather manufacture are identified 3.2 Chemical requirements are identified 3.3 Colour penetration for different grades of leather is identified 3.4 Chemicals for dyeing are determined and mixed 3.5 OHS practices are followed 3.6 Methods for tanning leather are determined 3.7 Tanning finishing requirements are determined 3.8 Specifications for tanning are developed
4 Communicate information	4.1 Problems affecting hide, skin or leather tanning or quality are identified and reported 4.2 Records and other documentation are clearly and accurately completed

Required Skills and Knowledge

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

Demonstrates knowledge of:

- industry and product processes and equipment
- types and application of formulations and additives
- colour mixing and penetration
- monitoring process and operator instructions
- safety and environmental aspects of processes relating to leather manufacturing
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- determine loads and batches
- identify operations
- minimise waste
- 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 for assessment and evidence required to demonstrate competency in this unit

Demonstrates skills and knowledge to:

- check quality
- determine dying quantities
- determine mixing requirements
- confirm processing requirements
- develop specifications
- maintain accurate records

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

Context and specific resources for assessment

Assessment may occur on the job or in an appropriately simulated environment and requires access to work areas, materials and equipment and to information on workplace practices and OHS practices.

Guidance information for 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.

Leather may include

- calf
- cow hide
- kid
- goat
- buffalo
- kangaroo
- reptile
- sheep
- ostrich
- emu
- pig
- deer

Characteristics may include

- stretch
- size
- grain
- nap
- substance
- hair follicle

Chemicals may include

- acids
- alkalis
- sulphide
- enzymes
- fungicides
- surfactants
- chromium
- peroxide
- dithionite
- aldehydes
- solvents
- sulphur dioxide

Processing

- machinery and equipment

requirements may include

- dye quantities
- finishing techniques
- storage of tanned leather
- drying methods
- leather use

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

Leather Production