



Australian Government

MSTHL3002 Determine tanning requirements for hide, skin and leather

Release: 1

MSTHL3002 Determine tanning requirements for hide, skin and leather

Modification History

Supersedes and is equivalent to LMTHL3002A Determine tanning requirements for hide, skin and leather

Application

This unit of competency covers the skills and knowledge required to determine tanning requirements for various hides, skins and leathers used in the production of leather goods, and includes colour and colour penetration, chemicals and chemical mixing and problem solving.

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

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Leather production

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Determine job requirements

- | | |
|-----|---|
| 1.1 | Follow standard operating procedures (SOPs) |
| 1.2 | Comply with work health and safety (WHS) requirements at all times |
| 1.3 | Use appropriate personal protective equipment (PPE) in accordance with SOPs |
| 1.4 | Identify job requirements from specifications, job sheets |

or work instructions

- | | | | |
|---|---|-----|---|
| 2 | Confirm quality | 2.1 | Confirm type and characteristics of hide, skin and leather |
| | | 2.2 | Confirm grading and quality of hide, skin and leather |
| | | 2.3 | Assess hide, skin and leather for tanning |
| 3 | Confirm processing requirements | 3.1 | Identify and confirm customer requirements |
| | | 3.2 | Obtain processing details from production information |
| | | 3.3 | Determine loads and batches according to processing requirements |
| | | 3.4 | Identify production planning priorities |
| | | 3.5 | Confirm processing requirements for tanning |
| | | 3.6 | Identify appropriate PPE and apparatus for handling and mixing tanning chemicals |
| | | 3.7 | Determine processes for minimising and disposing of waste in accordance with environmental and workplace procedures |
| 4 | Determine tanning specifications | 4.1 | Identify chemicals and requirements used for tanning in hide, skin and leather manufacture |
| | | 4.2 | Identify colour penetration for different grades of hide, skin and leather |
| | | 4.3 | Determine and mix chemicals for dying |
| | | 4.4 | Determine methods for tanning hide, skin and leather |
| | | 4.5 | Determine tanning finishing requirements |
| | | 4.6 | Develop specifications for tanning |
| 5 | Communicate | 5.1 | Identify and report problems affecting hide, skin or |

information

leather tanning or quality

5.2 Complete records and other documentation

Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Workplace procedures include one or more of the following:

- requirements prescribed by legislation, industry codes and standards, awards, agreements and conditions of employment
- SOPs
- 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
- WHS practices

Australian Standards include:

- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

Tanning activities include one or more of the following:

- deliming
- bating
- pickling
- tanning

Species include one or more of the following:

- calf
- cow hide
- kid

- goat
- buffalo
- kangaroo
- reptile
- sheep
- ostrich
- emu
- pig
- deer

Chemicals include one or more of the following:

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

Processing requirements include the following:

- machinery and equipment
- dye quantities
- finishing techniques
- storage of tanned hide, skin and leather
- drying methods
- hide, skin and leather use

WHS practices

WHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and include one or more of the following:

- manual handling techniques
- PPE
- safe materials handling
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment

- housekeeping
- reporting accidents and incidents
- other WHS practices relevant to the job and enterprise

Unit Mapping Information

Supersedes and is equivalent to LMTHL3002A Determine tanning requirements for hide, skin and leather

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>

Assessment Requirements for MSTHL3002 Determine tanning requirements for hide, skin and leather

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices, industry codes and standards
- applying relevant standards
- confirming grading and quality of hide, skin and leather and assessing hide, skin and leather for tanning, on at least two (2) occasions
- determining loads and batches according to processing requirements
- identifying and confirming customer requirements and planning tanning operations on at least two (2) occasions
- identifying chemicals and requirements used for tanning in hide, skin and leather manufacture, colour penetration for different grades of leather, and mixing chemicals for dyeing, on at least two (2) occasions
- identifying appropriate personal protective equipment (PPE) and apparatus when handling and mixing tanning chemicals
- determining methods for tanning hide, skin and leather and tanning finishing requirements
- determining processes for minimising and disposing of waste in accordance with environmental and workplace procedures
- identifying and reporting problems affecting hide, skin or leather tanning or quality
- completing records and other documentation.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of PPE
- relevant Australian Standards
- Industry and product processes and equipment
- determining specifications
- hide, skin and leather characteristics:
 - stretch
 - size
 - grain
 - nap

- substance
- hair follicle
- types and application of formulations and additives
- colour mixing and penetration
- monitoring process and operator instructions
- quality practices and procedures
- work health and safety (WHS) and environmental aspects of processes relating to leather manufacturing
- relevant federal and state or territory legislative or regulatory requirements
- recording and reporting procedures.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
 - have vocational competency in determining tanning requirements for hide, skin and leather, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.

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