



**Australian Government**

# **AMPREN304 Operate a tallow refining process**

**Release: 1**

## AMPREN304 Operate a tallow refining process

### Modification History

| Release   | Comments                                                                                |
|-----------|-----------------------------------------------------------------------------------------|
| Release 1 | This version released with AMP Australian Meat Processing Training Package Version 7.0. |

### Application

This unit of competency describes the skills and knowledge required to operate a tallow refining process, including preparation, rendering, separation, extraction, and shut down.

This unit applies to individuals who work under broad direction in an industrial rendering plant and who are responsible for operating a tallow refining process. It includes safety compliance using Hazard Analysis and Critical Control Point (HACCP) techniques, process and product quality requirements, and solving problems that arise with the process.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety, environmental and meat rendering regulations, legislation and standards that apply to the workplace.

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

### Pre-requisite Unit

Nil

### Unit Sector

Rendering (REN)

### Elements and Performance Criteria

| Elements                                  | Performance Criteria                                                                                                                                                                                                                |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                     |
| 1. Prepare to refine tallow               | 1.1 Confirm finished tallow product specifications<br>1.2 Identify hazards, assess and control risks according to workplace health and safety procedures<br>1.3 Identify food safety hazards, assess and control risks according to |

| Elements                                     | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.    | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                              | <p>HACCP principles</p> <p>1.4 Select and fit personal protective equipment and contamination control equipment</p> <p>1.5 Undertake preoperational checks of machinery and equipment according to workplace procedures and/or manufacturer requirements</p> <p>1.6 Clean and sanitise tools and equipment according to contamination control requirements</p>                                                                                                                                                      |
| 2. Extract tallow from rendered product      | <p>2.1 Set up, start up and operate presses according to product requirements and workplace procedures</p> <p>2.2 Monitor feed rate of rendered product and pressing operation to maximise safe production</p> <p>2.3 Monitor product in press to ensure finished quality specifications are met and adjust equipment</p> <p>2.4 Monitor environmental emissions according to workplace procedures</p>                                                                                                              |
| 3. Test tallow and unload refining equipment | <p>3.1 Take samples and test to ensure refined tallow product meets specifications</p> <p>3.2 Identify causes of product faults and rectify according to workplace requirements</p> <p>3.3 Contain spillages according to workplace and environmental requirements</p> <p>3.4 Reuse under refined tallow product or discard faulty products according to workplace and environmental requirements</p> <p>3.5 Transfer refined tallow product according to workplace procedures, quality and safety requirements</p> |
| 4. Shut down tallow refining process         | <p>4.1 Clean tallow refining equipment and report maintenance requirements</p> <p>4.2 Shut the refining process down safely according to operating procedures</p> <p>4.3 Identify and report maintenance requirements according to workplace procedures</p> <p>4.4 Maintain workplace records in appropriate format</p>                                                                                                                                                                                             |

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.*

|                    |                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading            | <ul style="list-style-type: none"> <li>Interpret operating manuals for tallow processing machinery</li> <li>Read and interpret gauges and scales</li> </ul> |
| Writing            | <ul style="list-style-type: none"> <li>Complete records using industry terminology</li> </ul>                                                               |
| Oral Communication | <ul style="list-style-type: none"> <li>Use open and closed questions to clarify information</li> </ul>                                                      |
| Numeracy           | <ul style="list-style-type: none"> <li>Estimate and measure time (hrs, mins), temperature (degrees Celsius), volume (mls, L) and pressure (psi)</li> </ul>  |

## Unit Mapping Information

| Code and title<br>current version                 | Code and title<br>previous version               | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Equivalence status |
|---------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| AMPREN304<br>Operate a tallow<br>refining process | AMPA3087 Operate<br>a tallow processing<br>plant | Merged with AMPA3089<br>Produce rendered products<br>hygienically<br><br>Unit sector, code and title<br>updated to better reflect<br>work task<br><br>Application updated<br><br>Unit sector added<br><br>Previous elements 3<br>merged with element 2<br><br>New element 4 added<br><br>Performance criteria<br>added, revised, reordered,<br>or merged for clarity<br><br>Foundation skills updated<br><br>Performance Evidence,<br>Knowledge Evidence and<br>Assessment Conditions<br>updated | Not equivalent     |
| AMPREN304<br>Operate a tallow                     | AMPA3089 Produce<br>rendered products            | Unit merged with<br>AMPA3087 Operate a                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not equivalent     |

|                  |              |                                                                                                  |  |
|------------------|--------------|--------------------------------------------------------------------------------------------------|--|
| refining process | hygienically | tallow processing plant<br>Unit sector, code and title<br>updated to better reflect<br>work task |  |
|------------------|--------------|--------------------------------------------------------------------------------------------------|--|

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5e2e56b7-698f-4822-84bb-25adbb8443a7>