



Australian Government

FBPOIL3001 Operate a degumming and neutralisation process

Release: 1

FBPOIL3001 Operate a degumming and neutralisation process

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to set up, operate, adjust and shut down a neutralisation process to remove impurities from crude oils.

This unit applies to individuals who apply basic operating principles to the operation and monitoring of a neutralisation process in an edible oils production environment. Processes may be batch or continuous, and apply to single or multiple product types.

All work must be carried out to comply with workplace procedures, in accordance with state/territory health and safety and food safety 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

Competency Field

Edible Oils (OIL)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare the degumming and neutralisation equipment for operation	1.1 Ensure oil stock is available for production requirements 1.2 Identify safety requirements and wear appropriate personal protective equipment, ensuring correct fit 1.3 Take samples and test oil stock to determine free fatty acid (FFA)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	levels 1.4 Check equipment and services are ready for operation 1.5 Acknowledge and load recipe to meet production requirements 1.6 Conduct pre-start checks according to operator instructions
2. Operate and monitor the degumming and neutralisation process	2.1 Start up and operate the neutralisation process according to work health and safety and operating procedures 2.2 Monitor equipment to ensure optimal operations 2.3 Identify irregularities in equipment operation, and report any maintenance requirements 2.4 Take samples and test to confirm that specifications are met at each stage according to production specifications 2.5 Identify, adjust or report out-of-specification product and process outcomes according to workplace procedures 2.6 Maintain the work area according to workplace guidelines 2.7 Enter workplace records in required format
3. Shut down the degumming and neutralisation process	3.1 Identify the appropriate shutdown procedure 3.2 Shut down the process safely according to operating procedures 3.3 Identify and report maintenance requirements 3.4 Ensure waste is disposed of in line with environmental requirements

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.

Skill	Description
Learning	Solve routine problems according to workplace guidelines and using experience of past solutions
Reading	Interpret standard operating procedures for the degumming and neutralisation process

Skill	Description
Writing	Record processing data using digital and/or paper-based formats
Numeracy	- Read oil sample graphs and processing gauges - Monitor and adjust control points for temperature, flow rates and dosages - Interpret FFA tests (using % oleic acid)

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPOIL3001 Operate a degumming and neutralisation process	FBPGPS2008 Operate a neutralisation process	Unit title and code updated to better match work task Minor changes to Performance Criteria to clarify intent Foundation Skills refined Performance Evidence clarified Minor changes to Knowledge Evidence and Assessment Conditions	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>