



Australian Government

FBPOIL3008 Operate and monitor a hydrogenation process

Release: 1

FBPOIL3008 Operate and monitor a hydrogenation 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 hydrogenation process to improve the hardness, viscosity, flavour and shelf-life of oils.

This unit applies to individuals who apply basic operating principles to the operation and monitoring of a hydrogenation 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

Unit Sector

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 hydrogenation and related equipment for operation	1.1 Ensure oil stock and emulsion are available to meet product recipe requirements 1.2 Identify safety requirements and wear appropriate personal protective equipment, ensuring correct fit

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Confirm services are available, and equipment is cleaned and not locked out 1.4 Acknowledge and load recipe to meet production requirements 1.5 Conduct pre-start checks according to operator instructions
2. Operate and monitor equipment	2.1 Start up and operate the hydrogenation process according to safe operating procedures 2.2 Ensure equipment and hoses are placed for optimal operations and to ensure safety 2.3 Monitor equipment and services to ensure optimal operations 2.4 Identify and report irregularities in equipment operation, and report any maintenance requirements 2.5 Confirm specifications are met at each stage according to production specifications 2.6 Identify, rectify or report out-of-specification product or process outcomes according to workplace procedures 2.7 Maintain work area according to workplace guidelines 2.8 Test hydrogenised oil samples to ensure product meets specifications 2.9 Record processing information in required format in line with workplace requirements
3. Shut down the hydrogenation process	3.1 Identify appropriate shutdown procedure 3.2 Shut down process safely according to operating procedures 3.3 Identify and report maintenance requirements according to workplace 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 hydrogenation process
Writing	Complete records according to workplace guidelines using digital and/or paper-based format
Numeracy	- Read sample graphs and process gauges - Monitor control points for oil temperature, vacuum pressure, flow rates and hydrogenation quantity and agitation

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPOIL3008 Operate and monitor a hydrogenation process	FBPGPS2006 Operate a hydrogenation 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>