



Australian Government

Assessment Requirements for FBPOIL3001 Operate a degumming and neutralisation process

Release: 1

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Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has operated a degumming and neutralisation process to remove impurities from crude oil to produce at least one batch of oil to meet product specifications, including:

- applying safe work practices
- following food safety procedures
- making adjustments to the operating parameters to ensure quality outcomes.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- purpose and basic principles of the degumming and neutralisation process, including the role of acid (for degumming) and alkali (for neutralisation) used
- basic operating principles of equipment, including:
 - main equipment components
 - status and purpose of guards
 - equipment operating capacities and applications
 - the purpose and location of sensors and related feedback instrumentation
- health and safety hazards and controls, including for risks associated with using acids
- good manufacturing practices (GMP) relevant to work task
- services required for a degumming and neutralisation process, and action to take if services are not available
- the flow of the degumming and neutralisation process, and the effect of outputs on downstream edible oils and fats processes
- quality characteristics to be achieved by the degumming and neutralisation process

- operating requirements and parameters, and corrective action required where operation is outside specified operating parameters
- typical equipment faults and related causes, including:
 - signs and symptoms of faulty equipment
 - early warning signs of potential problems
- methods used to monitor the degumming and neutralisation process, including inspecting, measuring and testing as required by the process
- inspection or test points (control points) in the degumming and neutralisation process and the related procedures and recording requirements
- contamination and food safety risks associated with the degumming and neutralisation process, and related control measures
- common causes of variation, and corrective action required
- requirements of different shutdowns as appropriate to the neutralisation process and workplace production requirements, including:
 - emergency and routine shutdowns
 - procedures to follow in the event of a power outage
- isolation, lock-out and tag-out procedures and responsibilities
- procedures and responsibility for reporting production and performance information
- environmental issues and controls relevant to the neutralisation process, including waste/rework collection and handling procedures related to the process
- operating principles of process control, including the relationship between control panels and systems and the physical equipment
- cleaning procedures for neutralisation equipment
- product traceability procedures.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - an oil processing workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective equipment
 - degumming and neutralisation equipment and services
 - oil for the neutralisation process, and acid and alkali materials as required by the process
 - sampling schedules, test procedures and equipment
 - cleaning materials and equipment
- specifications:
 - work procedures, including advice on safe work practices, food safety, quality and environmental requirements

- information on equipment capacity and operating parameters
- production schedule/batch specifications, control points and processing parameters
- documentation and recording requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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