



Australian Government

MSMBIO304 Separate and recover bioproducts

Release: 1

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Modification History

Release 1. New unit

Application

This unit describes the skills and knowledge to undertake separation and recovery bioprocessing procedures to prepare product and bioproducts for downstream processes.

This unit applies to using bioprocessing to produce a range of commercial bioproducts, such as biofuel, livestock feed and fertiliser.

This unit applies to plant operators and technicians working as part of a team within clearly established parameters and standard operating procedures.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil.

Competency Field

Bioprocessing

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 for separation and recovery	1.1 Identify and follow work and safety requirements 1.2 Read and interpret requirements of product specification 1.3 Gather and prepare all materials and documentation 1.4 Clean, sanitise and set up processing area and equipment according to standard operating procedures 1.5 Check and adjust process control software parameters
2. Operate and monitor separation and recovery equipment	2.1 Pump stillage to separation processing area 2.2 Complete routine checks, logs and paperwork taking appropriate action on unexpected readings 2.3 Monitor and control equipment, critical parameters, sensors and

Elements	Performance Criteria
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	processes to optimise quality and efficiency 2.4 Identify and resolve problems and hazards with the process and equipment 2.5 Operate equipment to separate and recover product according to specification
3. Finalise batch separation processes	3.1 Evaporate batch according to specification 3.2 Pump product and waste to downstream processes 3.3 Complete required documentation

Foundation Skills

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

- Writing skills to complete workplace documentation

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

Unit Mapping Information

Release 1. New unit.

Links

Companion Volume implementation guides are found in VETNet. -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>