

<b>Title</b>	<b>Carry out a milkfat fractionation process in a dairy processing operation</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare milkfat fractionation equipment for operation, and operate and monitor a milkfat fractionation process, in a dairy processing operation.
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<b>Classification</b>	Dairy Processing > Milk Products
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
  - Animal Products Act 1999;
  - Health and Safety at Work Act 2015;
  - Animal Products (Dairy) Regulations 2005; and any subsequent amendments.
- 2 All evidence presented in this unit standard must be in accordance with:
  - organisational requirements.
- 3 Definitions
 

*Milkfat fractionation equipment* – refers to tanks, crystallisation and/or speeder vessel, separators, pumps, heat exchanger.

*Materials* – refer to raw products used for processing.

*Organisational requirements* – instructions to staff on policies and procedures which are documented in memo, electronic or manual format and are available in the workplace. These include but are not limited to – site-specific and company standard operating procedures (SOPs), occupational health and safety, food safety and quality management requirements.
- 4 This unit standard must be assessed in a realistic workplace environment. The candidate must be under realistic time pressures and use relevant commercial equipment.

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### Outcomes and performance criteria

#### Outcome 1

Prepare milkfat fractionation equipment for operation in a dairy processing operation.

**Performance criteria**

- 1.1 Identify production requirements for a milkfat fractionation process.
- 1.2 Confirm materials and services necessary to a milkfat fractionation process are available to meet production requirements.
- 1.3 Check milkfat fractionation equipment in terms of status, condition and readiness for use.

**Outcome 2**

Operate and monitor a milkfat fractionation process in a dairy processing operation.

**Performance criteria**

- 2.1 Start up and operate a milkfat fractionation process.
- 2.2 Monitor milkfat fractionation equipment, product and control points to confirm that they meet production requirements.  
  
 Range monitoring may include but is not limited to – monitoring control points and parameters, adjusting operating parameters, plant checks, identifying sampling and testing requirements, taking samples, handling samples, dispatch of samples, conducting tests; evidence of three monitoring examples is required.
- 2.3 Identify, rectify or report any out-of-specification product and/or process outcomes to maintain the process within specification.
- 2.4 Clean and sanitise milkfat fractionation equipment.
- 2.5 Collect, treat and dispose of or store waste for recycling.
- 2.6 Record workplace information involved in operating and monitoring a milkfat fractionation process.
- 2.7 Shut down milkfat fractionation equipment.  
  
 Range shutdown includes but is not limited to – putting plant on standby, routine, emergency situation.

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<b>Planned review date</b>	31 December 2025
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	27 October 2005	31 December 2013
Rollover and Revision	2	17 July 2009	31 December 2016
Review	3	18 June 2015	31 December 2024
Review	4	27 May 2021	N/A
Revision	5	26 January 2023	N/A

**Consent and Moderation Requirements (CMR) reference**

0022

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

Please contact the Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.