

Title	Carry out a wet-side casein process in a dairy processing operation		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: describe the wet-side casein process; prepare wet-side casein equipment for operation; and operate and monitor wet-side casein equipment, in a dairy processing operation.
----------------	---

Classification	Dairy Processing > Milk Products
-----------------------	----------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
 - Health and Safety at Work Act 2015;
 - Health and Safety in Employment Regulations 1995;
 - Animal Products Act 1999;
 - 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

Control points – those key points in a work process which must be monitored and controlled. This includes product safety (critical), quality and regulatory control points as well as inspection points.

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 requirements include but are not limited to – site specific requirements, and company 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.

Outcomes and performance criteria

Outcome 1

Describe the wet-side casein process in a dairy processing operation.

Performance criteria

- 1.1 Describe the wet-side casein process in terms of basic principles.
- 1.2 Describe cleaning and sanitation requirements and procedures for a wet-side casein process.
- 1.3 Describe the functions and basic operating principles of components of wet-side casein equipment.
- Range evidence is required of three components.
- 1.4 Describe how the quality, composition and physical characteristics of raw materials affect the wet-side casein process in terms of process outcomes.
- 1.5 Describe the main wet-side casein controls and quality control points in terms of their effect on the quality of the product.
- Range controls and quality control points may include but are not limited to – procedures, operating parameters, equipment and instrumentation components, materials and services; evidence of three controls is required; effects may include but are not limited to – physical quality, functional quality, microbiological quality, consistency of quality; evidence of three effects is required.
- 1.6 Describe a critical control point in terms of key operating parameters, monitoring and operational checks.

Outcome 2

Prepare wet-side casein equipment for operation in a dairy processing operation.

Performance criteria

- 2.1 Identify production requirements for operating a wet-side casein process.
- 2.2 Confirm materials and services necessary to the wet-side casein process are available to meet production requirements.
- 2.3 Check wet-side casein equipment in terms of status, condition and readiness for use.

Outcome 3

Operate and monitor wet-side casein equipment in a dairy processing operation.

Performance criteria

- 3.1 Start up wet-side casein equipment.

3.2 Monitor wet-side casein 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.

3.3 Identify, rectify and/or report any out-of-specification product, process and equipment performance.

3.4 Clean and sanitise wet-side casein equipment.

3.5 Collect, treat, and dispose of or store waste for recycling.

3.6 Record workplace information related to monitoring and operating wet-side casein equipment.

3.7 Shut down wet-side casein equipment.

Range shutdown includes but is not limited to – putting plant on standby, routine, emergency situation.

Planned review date	31 December 2025
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 June 2015	31 December 2023
Review	2	27 May 2021	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 Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.