

<b>Title</b>	<b>Describe and apply advanced diagnostics and identify deviations in optimum performance in a dairy processing operation</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>30</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe the principles of fault-finding diagnostics; and, apply advanced diagnostic techniques and identify deviations in optimum performance, in a dairy processing operation.
----------------	---

<b>Classification</b>	Dairy Processing > Dairy Processing - Core Skills
-----------------------	---

<b>Available grade</b>	Achieved
------------------------	----------

---

### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015.
- 2 Definitions
 

*Fault* refers to mechanical, electrical, automotive and instrumentation faults.  
*Organisational requirements* refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – site specific requirements, manufacturer’s specifications, product quality specifications, and legislative requirements.
- 3 For the purpose of this unit standard advanced diagnostic techniques applied in a dairy processing operation may include but are not limited to:
  - functional descriptions
  - instrumentation
  - process control interface
  - pipework and instrumentation diagram
  - historical trending information
  - vibration monitoring.
- 4 The learner must apply four advanced diagnostic techniques to monitor process performance and identify deviations in optimum performance.
- 5 For the purposes of assessment:
  - evidence for the practical components of this unit standard must be supplied from the workplace.
  - evidence for all outcomes must be presented in accordance with organisational requirements.

## Outcomes and performance criteria

### Outcome 1

Describe the principles of fault-finding diagnostics in a dairy processing operation.

#### Performance criteria

- 1.1 Describe principles of fault-finding diagnostics in terms of the systematic investigation of symptoms, fault and cause effects.
- 1.2 Describe principles of fault-finding diagnostics in terms of the systematic analysis of processes within a system and associated inputs and outputs.
- 1.3 Describe the application of advanced diagnostic techniques in terms of monitoring process performance and identifying deviations in process performance.

Range evidence of four diagnostic techniques is required.

### Outcome 2

Apply advanced diagnostic techniques and identify deviations in optimum performance in a dairy processing operation.

#### Performance criteria

- 2.1 Apply advanced diagnostic techniques to monitor process performance.
- 2.2 Identify deviations in optimum performance.
- 2.3 Assess deviations in optimum performance to determine symptoms that indicate a process fault.
- 2.4 Apply hygienic procedures to prevent food contamination while fault finding.
- 2.5 Coordinate with other operators and service technicians to analyse the symptoms to raise a fault notification to ensure further investigation of the process fault is actioned.

<b>Planned review date</b>	31 December 2025
----------------------------	------------------

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	10 December 2020	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.