

Title	Apply fault finding techniques to assess the effectiveness of operating components in a dairy processing operation		
Level	5	Credits	20

Purpose	People credited with this unit standard are able to: describe the principles of fault finding, and techniques used to identify and diagnose faults in operating components; and apply fault finding techniques to assess the effectiveness of operating components, in a dairy processing operation.
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Classification	Dairy Processing > Milk Processing
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Health and Safety at Work Act 2015.
- 2 All evidence presented in this unit standard must be in accordance with organisational requirements.
- 3 Definition
Organisational requirements – instructions to staff on policies and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – manufacturer specifications, company quality management requirements, site procedures, and legislative requirements.

Outcomes and performance criteria

Outcome 1

Describe the principles of fault finding, and techniques used to identify and diagnose faults in operating components.

Performance criteria

- 1.1 Describe the principles of fault finding in terms of investigating symptoms, faults and effects.

1.2 Describe fault finding techniques in terms of fault identification and diagnosis in operating components.

Range techniques may include but are not limited to – observation, measurement, frequency of occurrence, previous fault data, functional descriptions, piping and instrumentation diagrams, built-in diagnostics, maintenance records, trending, historical data, alarm priority; evidence of six techniques is required.

Outcome 2

Apply fault finding techniques to assess the effectiveness of operating components in a dairy processing operation.

Range evidence of seven operating component faults ranging in complexity is required; four routine faults assessed in one work period; three faults assessed over multiple work periods; one complex fault requiring a team approach.

Performance criteria

2.1 Confirm the integrity of the processing components is maintained and uncompromised during the fault identification and assessment process.

2.2 Assess the effectiveness of operating components and identify faults in a dairy process using a five step approach.

Range five step approach includes – collect evidence, analyse evidence, locate the fault, rectify the fault, check the system.

2.3 Utilise fault finding techniques to identify and diagnose faults in operating components.

Range techniques may include but are not limited to – observation, measurement, frequency of occurrence, previous fault data, functional descriptions, piping and instrumentation diagrams, built-in diagnostics, maintenance records, trending, historical data, alarm priority; evidence of six techniques is required.

2.4 Report faults using organisational communication protocols to resolve faults in operating components.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 April 2022	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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.