APPLY DAIRY EQUIPMENT OPERATIONAL PRINCIPLES

ISCED UNIT CODE: 0721 541 05A
TVET CDACC UNIT CODE: DA/OS/PM/CC/01/6/MA

Unit Description

This unit specifies the competencies required by a Dairy Processing technician Level 6 to apply Dairy equipment operational Principles. It involves applying unit operations principles, applying operations and maintenance principles and applying instrumentation and automation principles in in dairy processing.

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ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace functions	These are assessable statements which specify the required level of performance for each of the elements ***(Bold and italicized terms are elaborated in the range)***
1. Apply unit operations principles	1.1 Dimensions and units are used based on work requirement 1.2 Unit operations are identified as per work requirements 1.1 Unit operations are applied as per work requirements
2. Apply dairy plant layout principles	2.1 Equipment layout is selected based on work requirements. 2.2 Dairy plant layout is designed based on work requirements 2.1 Dairy equipment are arranged based on work requirements.
3. Apply dairy plant design principles	3.1 Construction materials are selected based on code hygiene practices. 3.2 Dairy plant is constructed in accordance with work requirements 3.1 Constructed dairy plant is evaluated as per design requirement.
4. Apply Dairy Machinery and Equipment operation principles	5.1 Processing equipment and machinery are selected as per work requirement 5.2 Processing equipment and machinery assembled as per manufacturer's instruction manual 5.3 Processing equipment and machinery are operated as per manufacturer's instructions manual. 5.4 Processing equipment and machinery records are updated as per work requirements

5. Apply Dairy Machinery and Equipment Maintenance principles	5.1 Processing equipment and machinery maintenance requirements are established based on manufacture's instructions.
	5.2 Processing equipment and machinery maintenance procedures are applied as per manufacturer's instructions
	5.3 Processing equipment and machinery maintenance records are updated as per work instructions.

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required knowledge

The individual needs to demonstrate knowledge of:

- Unit operations
- Dairy plant layout
- Dairy plant design
- Dairy Machinery and Equipment operation

Required Skills

The individual needs to demonstrate the following skills:

- Communication.
- Dairy Machinery and Equipment operation
- Time management.
- Numeracy.
- Observation.
- Digital literacy.

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

| 1. Critical aspects of competency | Assessment requires evidence that the candidate |
| | 1.1 Selected equipment layout based on work requirements. |

	1.2 Designed dairy plant layout based on work requirements
	1.3 Arranged dairy equipment based on work requirements.
	1.4 Assembled processing equipment and machinery as per manufacturer's instruction manual
	1.5 Operated processing equipment and machinery as per manufacturer's instructions manual.
	1.6 Maintained processing equipment and machinery based on manufacturer's instructions
	1.7 . Updated processing equipment and machinery records as per work requirements
2. Resource implication	The following resources should be provided: 2.1 Access to relevant workplace where assessment can take place 2.2 Appropriately simulated environment where assessment can take place 2.3 Materials relevant to the proposed assessment activity or tasks
3. Method of assessment	Competency in this unit may be assessed through: 3.1 Practical assessment 3.2 Oral questioning 3.3 Written tests
4. Context of assessment	4.1 Competency elements must be assessed in a safe working environment 4.2 Assessment may be conducted in a workplace or simulated environment
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.