



Australian Government

Department of Education, Employment and Workplace Relations

AHCMKH304A Monitor and provide advice on cleaning milking machines

Release: 1

AHCMKH304A Monitor and provide advice on cleaning milking machines

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the process of carrying out the cleaning of milking machines and associated equipment including detergent selection, selecting wash cycle programs and problem investigation of cleaning systems and defines the standard required to: assemble/disassemble milking equipment; carry out milking equipment and vat cleaning routines; prepare cleaning solutions in accordance with manufacturer's specifications; evaluate cleaning routines for equipment and vats and identify cleaning problems; identify mechanical and chemical safety hazards associated with the cleaning process.
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Application of the Unit

Application of the unit	This unit requires some judgement and discretion and is carried out independently. The role of providing advice to achieve the highest possible standards of dairy hygiene requires an understanding of the milking process, the nature of milk and the basic components of the cleaning process.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

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1. Identify cleaning problems	1.1. Current hygiene practices are established through interview and shed records. 1.2. Factory test results are accessed and collated to establish bacterial levels for the plant and identify potential cleaning problems. 1.3. Milking equipment is inspected and disassembled as required to identify residues and other evidence of poor cleaning regimes. 1.4. Cleaning chemicals are identified to establish current cleaning and hygiene regimes. 1.5. Water quality and quantity is assessed to establish the effect on cleaning procedures. 1.6. Occupational Health and Safety (OHS) hazards are identified, risks assessed and hazards reported, or risk controlled and the risk assessment recorded as a part of investigative procedures.
2. Carry out cleaning routines	2.1. Machine and ancillary equipment cleaning routines are carried out as specified by the equipment manufacturer. 2.2. Vat cleaning routines are carried out as specified by the equipment manufacturer. 2.3. Water temperature and the chemical concentrations circulated are monitored through the cleaning cycle. 2.4. Plant is manually cleaned to remove milk stone and other accumulated residues.
3. Advise on chemicals and cleaning routines	3.1. Cleaning routines to suit the installation are determined and documented in consultation with the equipment manufacturer and chemical company representatives as required. 3.2. Hygiene regime for the total installation is recorded and specified to the shed manager. 3.3. Prescribed cleaning routines are evaluated to ensure that equipment and cleaning performance meets performance specification.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- assemble/disassemble milking equipment
- efficiently carry out milking equipment and vat cleaning routines
- prepare cleaning solutions in accordance with manufacturers specifications
- effectively evaluate cleaning routines for equipment and vats
- identify cleaning problems
- identify mechanical and chemical safety hazards associated with the cleaning process
- use literacy skills to read, interpret and follow organisational policies and procedures, follow sequenced written instructions, record accurately and legible information collected and select and apply procedures for a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation, including questioning techniques, active listening, clarifying information and consulting with supervisors as required
- use numeracy skills to estimate, calculate and record routine workplace measures
- use interpersonal skills to work with and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- best practice hygiene routines employed in farm dairies
- the range of bacteria affecting milk quality
- microbial testing of milk and the effect of cleaning practices on those levels
- the role of chemical concentration , physical turbulence, water temperature and contact time in the cleaning routine
- the conduct of milking machine cleaning routines
- the conduct of vat cleaning routines
- cleaning chemicals and methods
- common milking machine cleaning systems and their operation.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • assemble/disassemble milking equipment • carry out milking equipment and vat cleaning routines • prepare cleaning solutions in accordance with manufacturer's specifications • evaluate cleaning routines for equipment and vats and identify cleaning problems • identify mechanical and chemical safety hazards associated with the cleaning process.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Cleaning may include:	• Standard Operating Procedures for dairy cleaning • machines and equipment such as the milking plant with all lines and cans • non-milking equipment including jetters and cup removers.

Unit Sector(s)

Unit sector	Milk harvesting
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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