

## Modification history

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

AHCMKH4XX	Install milking equipment
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to order, assemble or manufacture components for milking equipment installations. It requires the ability to prepare the installation site and conduct commissioning testing following installation.</p> <p>This unit applies to technicians who install milking equipment components for dairy facilities.</p> <p>All work is carried out to comply with workplace policies and procedures, according to state/territory work health and safety, animal welfare, environmental and biosecurity legislation, regulations and standards that apply to the workplace.</p> <p>No licensing, legislative or certification requirements to apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Milk Harvesting (MKH)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for milking equipment installation	1.1 Establish and confirm installation requirements and contract plan with customer 1.2 Order specified tinware according to installation requirements 1.3 Confirm bending and rolling of pipe work meet specifications 1.4 Assemble components in transportable sections for transfer to site 1.5 Seek specialist advice for non-standard installations
2. Inspect and prepare installation site	2.1 Check site location, dimensions and levels 2.2 Determine work health and safety hazards, assess risks and determine controls 2.3 Report non-compliance and make alterations and corrections in consultation with required authorities 2.4 Measure installation and mark layout according to contract plan
3. Manufacture components in the workshop	3.1 Determine work health and safety hazards, assess risks and implement controls for safe manufacture 3.2 Manufacture vacuum pump guards and stands according to specifications 3.3 Manufacture and assemble pipelines and vessels according to installation requirements 3.4 Pre-wire electrical components to specifications and safety requirements 3.5 Complete non-milking systems according to installation requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Carry out milking equipment installation	4.1 Determine work health and safety hazards, assess risks and implement control for safe installation 4.2 Prepare equipment components for sequential installation 4.3 Install equipment according to specifications and in co-operation with facility, trade and building personnel 4.4 Carry out installation according to regulatory and compliance requirements 4.5 Make modifications to standard operating procedures as required 4.6 Level, align, couple and connect non-electrical components according to specifications
5. Carry out commission testing and post installation activities	5.1 Complete mechanical testing of equipment to ensure conformance to specifications, performance standards and work health and safety requirements 5.2 Take corrective actions for equipment performing below standards and manufacturer specifications 5.3 Confirm work quality and finish comply to industry standards 5.4 Clean site, remove unused materials and waste according to workplace and environmental requirements 5.5 Record and report modifications to equipment to relevant authority

Foundation Skills	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> <li>Interpret key information from manufacturer and regulatory documentation</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Gather information through open-ended questioning, active listening, paraphrasing and summarising</li> <li>Use appropriate language and tone to communicate installation plans and requirements with customer and other personnel</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Complete documentation and plans using the required format, logical structure and industry terminology</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Calculate costings, time and application rates</li> </ul>

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMKH4XX Install milking equipment	AHCMKH404 Install milking equipment	Changes to elements, performance criteria, performance and knowledge evidence. Foundation skill added. Assessment conditions expanded	Equivalent

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</a>
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<b>TITLE</b>	<b>Assessment requirements for AHCMKH4XX Install milking equipment</b>
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**Performance Evidence**

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has conducted at least two different milking equipment installations according to contract plan, including for each:

- ordered and prepared required installation components
- conducted site inspection to confirm dimensions, safety and compliance
- manufactured and assembled components to specifications
- working collaboratively with others during installation
- installed equipment in collaboration with relevant personnel
- conducted commission testing on installed equipment and made modifications as required
- implemented work health and safety requirements for all processes.

**Knowledge Evidence**

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- types and functions of milking equipment
- requirements, physical resources, components, procedures for installation of milking equipment
- requirements, criteria and procedures for making alterations and modifications to milking equipment
- regulatory requirements and procedures for reporting non-compliance of milking equipment and installations
- implications and impacts of non-compliance of milking equipment
- requirements and considerations for installing milking equipment
- keys aspects and components of contracts used for milking equipment installations
- types of approvals, authorities and permits requirements, and procedures to obtain these approvals, authorities and permits
- criteria and methods for assessing performance of milking equipment
- requirements, procedures and assessment criteria for mechanical testing of milking equipment
- possible faults, problems and poor performance with milking /equipment and corrective actions for these faults, problems and poor performance
- requirements, methods and procedures for site cleaning, waste and debris disposal
- relevant work health and safety requirements for milking equipment installations.

**Assessment Conditions**

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a dairy milking facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - milking equipment and components
  - tools and equipment to install and conduct commission testing
  - personal protective equipment
- specifications:
  - facility milking equipment specifications and plan
  - workplace policies and procedures for milking equipment installation, including advice on health and safety requirements
  - manufacturer specifications
- relationships:
  - interactions with customer and relevant personnel.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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