

Modification history

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 8.0.

AHCWAT3X1	Procure, receive and monitor water for irrigation
Application	<p>This unit of competency describes the skills and knowledge required to identify and analyse common water holding licences and/or accounts that are used to access irrigation water, including water attached to entitlements and/or water that is available on the temporary market. Irrigators may own and operate their own infrastructure (private diverters) and/or access water via infrastructure within an irrigation footprint.</p> <p>The unit applies to workers who apply knowledge and skills to purchase and take delivery of water on to properties for agricultural use. They monitor the environment and water market and use judgement to purchase water and follow up water delivery and use. The unit applies to irrigators and other agricultural workers that operate autonomously, coordinate activities, solve predictable and unpredictable problems and take responsibility for the success of their crops and/or livestock. It may also apply to the purchase and sale of water for other sectors.</p> <p>Commonwealth and state/territory and regional/local legislation, regulations and rules apply to the purchase, sale and use of water. Requirements vary between jurisdictions.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Water (WAT)

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. Determine the legal and regulatory requirements for water licences and/or access accounts	1.1 Confirm water sources connected to the property to be irrigated and identify the authorities that manage and/or regulate water sources and delivery infrastructure 1.2 Identify water licences and/or water account types that may be used to access and/or procure water for irrigation 1.3 Identify the regulations and other requirements related to holding and operating a water licence or a water account in that region 1.4 Identify water entitlements and allocations, water licence/types accessible, infrastructure, delivery risks and yearly costs required to access water as a private diverter 1.5 Identify water licence and/ or water types accessible, temporary and/ or annual water, delivery risks and yearly costs required to access water within an irrigation footprint

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Implement water deliveries	2.1 Confirm private diverter's water licence conditions related to water share (allocation), allocation account, reporting requirements, allowable tradeable water carry over component, and where and/or how the water will be used 2.2 Check pump, water meter and other infrastructure are compliant with regulatory requirements and ready for operation 2.3 Monitor weather conditions and forecasts 2.4 Confirm delivery times and prepare to extract water during time window 2.5 Extract water within licence conditions 2.6 Check metering, complete reporting if required, and track overall extraction against licence conditions 2.7 Monitor water levels and water authority announcements and take action to insure you're operating within your legal requirement if required 2.8 Protect pumps if required
3. Implement water deliveries as part of an irrigation footprint	3.1 Confirm water extraction conditions, related to water share (entitlement and/or allocation), allocation account, reporting requirements, allowable tradeable water and carry over component, and where and/or how the water will be used 3.2 Confirm there is sufficient water in account to place order, and source additional water if required 3.3 Place lodgement of order 3.4 Monitor lead time 3.5 Check meter and other infrastructure is compliant with supplier's conditions and ready for operation 3.6 Confirm delivery times and prepare to receive water during time window 3.7 Extract water according to supplier conditions 3.8 Check metering, and complete reporting if required and track overall extraction against licence conditions
4. Conduct end of season review and commence preparation for next season	4.1 Compare actual water delivered to water ordered and liaise with local water authority 4.2 Complete water delivery process confirming shut off and final automated procedures 4.3 Identify water usage trends for current season 4.4 Conduct equipment and infrastructure checks and maintenance 4.5 Complete final regulatory reporting as required

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"> Interpret legislation, regulations and rules related to water trading
Writing	<ul style="list-style-type: none"> Record and report information accurately using appropriate regulatory and industry terminology
Oral communication	<ul style="list-style-type: none"> Use open and close questions to gather information
Numeracy	<ul style="list-style-type: none"> Measure and calculate area, volume, percentage, ratio and unit costs Use appropriate terminology to describe water volumes, including megalitres (ML) and gigalitres (GL) Identify and interpret trends from water market data sources

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCWAT3X1 Procure, receive and monitor water for irrigation	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created
Links		Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72	

TITLE	Assessment requirements for AHCNEW3X1 Procure, receive and monitor water for irrigation
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has undertaken the processes required to cost effectively order and take delivery of at least three separate parcels of water for a specific property, either as private diverter or as part of an irrigation footprint. In doing so, the individual must have:</p> <ul style="list-style-type: none"> • confirmed the licence and/or water account conditions, including penalties that may apply • identified total water available under the licence and/or account • confirmed and completed internal and external reporting requirements • complete an end of year water balance for a water account, working out how much carry over they might have • identified the key measuring and reporting requirements for the jurisdictions they are undertaking the study within • identify key features of water allocation/ rules in three different jurisdictions 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • key features of regulations and conditions that apply to the water extracted and used including: <ul style="list-style-type: none"> • Water Access Licence • Water use approval • Works approval • Delivery/ extraction share • key features of water markets and how they function, including: <ul style="list-style-type: none"> • entitlement trade • allocation trade • key market participants including irrigators, environmental water holders and regulators • conditions on market participants • powers and functions of state and regional water authorities or private infrastructure operators that apply to the water extracted and used • functions and operations of state water registers that apply to the jurisdiction being irrigated • water use licences and water trade restrictions that apply to extracted and used • key features of water entitlements and water allocations, including seasonal variations • trade restrictions related to water licence and/or water account, including carry over water and inter-valley trade cap requirements • types and classes of water available in local water market • risks associated with water orders and delivery • lead time under a range of water availability and deliverability scenarios • water products available in local water market • features and benefits of temporary water trading • key factors that affect water usage and their changes during a wet, average and dry year. • key considerations, methods and activities for water planning to support crop production, livestock production including intensive agriculture • situations when to seek legal and financial advice related to water purchases, including use of water brokers • sources of information on allocation, allocation announcements and market opportunities • historical data and analysis on long-term reliability of different entitlement types or water products • 	
Assessment Conditions	
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: 	

Assessment Conditions	
<ul style="list-style-type: none"> • a workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • digital technologies and software required to complete the tasks specified in the performance evidence • access to water trading platform • access to property specified in the performance evidence and/or information about the property required to successfully undertake the performance • specifications: <ul style="list-style-type: none"> • access to legislation, regulations and trading rules that apply to the water extraction specified in the performance evidence • access to water licence or water account specified in the performance evidence <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72