

# AHC32424 Certificate III in Irrigation Technology

(was AHC32422)

Following strategic revisions of the AHC Training Package by unit sector, several qualifications and skill sets require updating to include the improved units.

Feedback from the recent broad consultation phase has not resulted in any further changes to this qualification.

The qualification equivalency status has now been added. Due to the changes in the core of this qualification, the status has been deemed not equivalent.

We are now seeking final validation of this qualification. To validate, please use the survey link on the project webpage.

The units of competency updated in this qualification are highlighted, please see notes on changes between the current and updated units at the end of this document for more information.

**Modification History**

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 10.0.

AHC32424	Certificate III in Irrigation Technology
<p><b>Qualification Description</b></p> <p>This qualification describes the skills and knowledge for trade level roles carried out in the irrigation industry.</p> <p>Individuals with this qualification perform tasks under broad supervision involving a broad range of skills that are applied in a wide variety of contexts, which will involve discretion and judgement in selecting and operating equipment, coordinating resources and applying contingency measures during work.</p> <p>Work must comply with work health and safety and environmental regulations and legislation that apply to the workplace.</p> <p>No licensing, legislative or certification requirements apply to this qualification at the time of publication.</p>	
<p><b>Entry Requirements</b></p> <p>There are no entry requirements for this qualification.</p>	

**Key:**

Superseded units / recommended replacements

New unit

~~Proposed deletion~~ - deleted units/units proposed for deletion

### Packaging Rules

To achieve this qualification, competency must be demonstrated in:

- 22 units of competency:
  - 9 core units plus
  - 13 elective units.

Elective units must ensure the integrity of the qualification’s Australian Qualification Framework (AQF) alignment and contribute to a valid, industry-supported vocational outcome. The electives are to be chosen as follows:

- 7 must be from Group A electives
- 2 must be from Group A or B electives
- 4 from the remaining units listed in Groups A or B, or any other endorsed Training Package or accredited course packaged at Certificate III.

### Core Units

AHCINF308	Install and terminate extra low voltage wiring systems
AHCIRG337	Measure irrigation delivery system performance
AHCIRG338	Troubleshoot irrigation systems
AHCIRG339	Monitor soils under irrigation
AHCIRG340	Install irrigation pumps
AHCIRG342	Interpret irrigation plans and drawings
AHCIRG345	Install pressurised irrigation systems
AHCWHS302	Contribute to workplace health and safety processes
AHCWRK320	Apply environmentally sustainable work practices

### Elective Units

An asterisk (\*) next to the unit code indicates that there are prerequisite requirements which must be met when packaging the qualification. Please refer to the Prerequisite requirements table for details.

#### Group A

AHCDRG305	Install drainage systems
AHCDRG306	Measure drainage system performance
AHCDRG307	Troubleshoot drainage systems
AHCDRG308	Maintain and repair irrigation drainage systems
AHCIRG301	Install gravity fed irrigation systems
AHCIRG328	Operate irrigation controller and sensor technology
AHCIRG336	Operate and maintain gravity fed irrigation systems
AHCIRG341	Operate and maintain irrigation pumping systems

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AHCIRG343	Operate irrigation injection equipment
AHCIRG344	Implement an irrigation schedule
AHCIRG346	Operate pressurised irrigation systems
AHCIRG347	Maintain pressurised irrigation systems
AHCIRG348	Operate and maintain moving irrigation system
AHCWRK317	Coordinate work site activities
MEM12024 *	Perform computations

### Group B

AHCCHM101	Follow basic chemical safety rules
AHCCHM201	Apply chemicals under supervision
AHCCHM304	Transport and store chemicals
AHCIRG349	Recommend irrigation products and services
AHCLPW313	Undertake sampling and testing of water
AHCMER306	Sell products and services
AHCMOM204	Undertake operational maintenance of machinery
AHCMOM208	Conduct excavator operations
AHCMOM304	Operate machinery and equipment
AHCWAT303	Access, extract and monitor water for irrigation
AUMGTW001	Perform basic welding, thermal cutting, heating and gouging
<del>AHCMER301</del>	<del>Process customer complaints</del>
BSBCMM301	Process customer complaints
BSBWRT311	Write simple documents
CPCPCM2043	Carry out WHS requirements
CPCPCM3023 *	Fabricate and install non-ferrous pressure piping
CPCPWT3027 *	Install backflow prevention devices
ICTWOR304	Manage spare parts
MEM07032 *	Use workshop machines for basic operations
MEM11011 *	Undertake manual handling

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MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006 *	Organise and communicate information
MEM18001 *	Use hand tools
MEM18002 *	Use power tools/hand held operations
MEMPE001	Use engineering workshop machines
MSTGN3023	Estimate and cost job
NWPIWS002	Operate regulating devices in rural irrigation systems
NWPIWS004	Install meters for rural water supplies
NWPIWS006	Maintain meters for rural water supplies
NWPIWS008	Monitor and conduct maintenance on rural irrigation assets
NWPIWS012	Monitor and schedule water deliveries
NWPNET019	Prepare and restore worksite
NWPNET029	Locate, identify and protect utilities
NWPTRT028	Operate and control reclaimed water irrigation
PMBWELD301E	Join polyethylene plastic pipelines using butt welding
PMBWELD302E	Join polyethylene plastic pipelines using electrofusion welding
SIRRINV001	Receive and handle retail stock
SIRRINV002	Control stock
SIRRMER003	Coordinate visual merchandising activities
SIRXCEG003	Build customer relationships and loyalty
SIRXPDK001	Advise on products and services
SITXCCS014	Provide service to customers
TLIK2010	Use infotechnology devices in the workplace
TLILIC0003	Licence to operate a forklift truck
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace
UEERL0001 *	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply

### Prerequisite Units

Note: Units listed in the Prerequisite requirement column that have their own prerequisite requirements are shown with an asterisk (\*)

Unit of competency	Prerequisite requirement
CPCPCM3023 Fabricate and install non-ferrous pressure piping	CPCPCM2043 Carry out WHS requirements
CPCPWT3027 Install backflow prevention devices	CPCPCM2043 Carry out WHS requirements CPCPCM3023 Fabricate and install non-ferrous pressure piping *
MEM07032 Use workshop machines for basic operations	MEM11011 Undertake manual handling * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information * MEM18001 Use hand tools *
MEM11011 Undertake manual handling	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM16006 Organise and communicate information	MEM13015 Work safely and effectively in manufacturing and engineering
MEM18001 Use hand tools	MEM11011 Undertake manual handling * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM18002 Use power tools/hand held operations	MEM11011 Undertake manual handling * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

### Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHC32424 Certificate III in Irrigation Technology	AHC32422 Certificate III in Irrigation Technology	Updated 3 Core units and 4 Elective units	Not equivalent

### Links

Companion Volumes, including Implementation Guides, are available at VETNet:  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

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**Acronyms:**

E – Equivalent

NE - Not Equivalent

PC – Performance Criteria

PE – Performance Evidence

KE – Knowledge Evidence

AC – Assessment Conditions

AHC - Agriculture, Horticulture and Conservation and Land Management Training Package

Unit's location in impacted qualification	Current Unit	Replacement Unit	Equivalence	Notes on change
Core	AHCINF304 Install and terminate extra low voltage wiring systems	AHCINF308 Install and terminate extra low voltage wiring systems	NE	<p><u>Elements</u> - unchanged</p> <p><u>Performance Criteria</u> Removal of one PC; 2.4 Respond to unplanned events or conditions using established procedures Addition of one PC; 2.2 Select, fit, use and maintain personal protective equipment (PPE) applicable to the task.</p> <p><u>Foundation Skills</u> added (Reading, Oral communication and Numeracy)</p> <p><u>Range of Conditions</u> - removed completely</p> <p><u>Performance Evidence</u></p>

				<p>Frequency added. Now states that there must be evidence that the individual has “<i>installed and terminated extra low voltage wiring systems on at least two occasions</i>”</p> <p>Removed “<i>read labels and signage to differentiate between extra low voltage and other electrical systems</i>”, and “<i>read and follow manufactures manuals and enterprise procedures for extra low voltage wiring</i>”</p> <p><u>Knowledge Evidence</u></p> <p>Added “<i>workplace requirements applicable to health and safety in the workplace for installing extra low voltage wiring systems including appropriate use of PPE</i>”</p> <p>Removed “<i>relevant legislation and guidelines for installing extra low voltage wiring</i>”</p> <p><u>Assessment Conditions</u> - updated</p>
Core	AHCWHS301 Contribute to work health and safety processes	AHCWHS302 Contribute to workplace health and safety processes	NE	<p><u>Elements</u></p> <p>Element 3 changed from “<i>Observe safe practices during work operations</i>” to “<i>Follow safe practices during work operations</i>”</p> <p><u>Performance Criteria</u></p> <p>Consolidated so that specific hazards including noise and manual handling risks are covered under “<i>identifying and dealing with risks and hazards according to workplace procedures</i>”</p> <p><u>Foundation Skills</u> added (Reading, Writing and Oral Communication)</p> <p><u>Performance Evidence</u></p> <p>Frequency added. Now states that there must be evidence “<i>the individual has contributed to workplace health and safety processes on at least one occasion</i>”</p> <p><u>Knowledge Evidence</u></p> <p>Knowledge of hazard identification and risk management processes is now specified to include risk assessment, risks matrix and hierarchy of controls</p> <p><u>Assessment Conditions</u> - updated</p>



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Core	AHCWRK309 Apply environmentally sustainable work practices	AHCWRK320 Apply environmentally sustainable work practices	NE	<p><u>Elements</u> – unchanged</p> <p><u>Performance Criteria</u> - minor changes</p> <p><u>Foundation Skills</u> added (Reading, Writing and oral Communication)</p> <p><u>Performance Evidence</u> Frequency added. Now states that there must be evidence that the individual has “<i>applied environmentally sustainable work practices on at least one occasion</i>” Specifically listed strategies to improve resource usage, reduce waste, employ recycling, re-use or re-purposing are now covered by the point:</p> <ul style="list-style-type: none"> <li>used appropriate techniques and tools to assist in achieving resource efficiencies and environmental targets</li> </ul> <p><u>Knowledge Evidence</u> Strategies for improved resource use are listed and also covered under principles of waste management, resources and environmental resources used in own industry sector.</p> <p><u>Assessment Conditions</u> - updated</p>
Elective	AHCWRK305 Coordinate work site activities	AHCWRK317 Coordinate work site activities	NE	<p><u>Elements</u> - unchanged</p> <p><u>Performance Criteria</u> 1.5 Identify potential hazards and risks, and implement safe working practices to manage risks, in place of, ‘carry out work health and safety risk assessment’. 2.1, 2.2 and 2.3 now include ‘confirm with supervisor’ when organising resources</p> <p><u>Foundation Skills</u> added (Writing, Oral communication and Numeracy)</p> <p><u>Range of Conditions</u> - removed completely</p> <p><u>Performance Evidence</u> - minor changes</p> <p><u>Knowledge Evidence</u></p>

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				<p>Change to wording with respect to WHS. Now states “<i>workplace requirements applicable to health and safety in the workplace for coordinating work site activities</i>”.</p> <p><u>Assessment Conditions</u> - updated</p>
Elective	AHCMER301 Process customer complaints	BSBOPS305 Process customer complaints		<p><i>AHCMER301 Process customer complaints</i> was proposed for deletion in the recent <a href="#">Ag &amp; Horticulture Core Skills Project</a> due to duplication.</p> <p>It is recommended where this unit appears, that <a href="#">BSBOPS305 Process customer complaints</a> is used instead.</p>
Elective	MEMPE001A Use engineering workshop machines	MEMPE001 Use engineering workshop machines	E	Minor changes
Elective	MSTGN3003 Estimate and cost job	MSTGN3023 Estimate and cost jobs	E	Minor changes

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