

# 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.

Skills Insight is seeking comment from those who may be impacted by the replacement of the units so that disruptions can be minimised. These updates are not to change the intent of the qualifications, simply to include units already consulted on with stakeholders to better meet skills needs.

Below is an updated version of Certificate III in Irrigation Technology as well as a summary of the updates made to units within it.

This document provides a list of units of competency to be updated in this qualification and includes notes on changes between the current and updated units. Other units are not included as they don't need to be changed.

## 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

## Key:

Superseded units / recommended replacements

New unit

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

**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>   |  |

**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     |

## AHC32424 Certificate III in Irrigation Technology

|            |   |
|------------|---|
| 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                                   |

## AHC32424 Certificate III in Irrigation Technology

|             |   |
|-------------|---|
| 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   |
| NWPWS002    | Operate regulating devices in rural irrigation systems  |
| NWPWS004    | Install meters for rural water supplies   |
| NWPWS006    | Maintain meters for rural water supplies  |
| NWPWS008    | Monitor and conduct maintenance on rural irrigation assets                                      |
| NWPWS012    | 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 *<br>MEM13015 Work safely and effectively in manufacturing and engineering<br>MEM16006 Organise and communicate information *<br>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 *<br>MEM13015 Work safely and effectively in manufacturing and engineering<br>MEM16006 Organise and communicate information *                              |
| MEM18002 Use power tools/hand held operations   | MEM11011 Undertake manual handling *<br>MEM13015 Work safely and effectively in manufacturing and engineering<br>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 | To be confirmed    |

#### Links

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

**Qualification: AHC32424 Certificate III in Irrigation Technology (was AHC32422)**

| Unit's location in impacted qualification | Current Unit  | Replacement Unit  | Equivalence | Notes on change  |
|---|---|---|-------------|--|
| Core                                      | AHCINF304<br>Install and terminate extra low voltage wiring systems | AHCINF308<br>Install and terminate extra low voltage wiring systems | NE          | <p><u>Elements</u> - unchanged</p> <p><u>Performance Criteria</u><br/>Removal of one PC; 2.4 Respond to unplanned events or conditions using established procedures<br/>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><br/>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>”<br/>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><br/>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>”<br/>Removed “<i>relevant legislation and guidelines for installing extra low voltage wiring</i>”</p> <p><u>Assessment Conditions</u> - updated</p> |
| Core                                      | AHCWHS301<br>Contribute to  | AHCWHS302<br>Contribute to workplace health                         | NE          | <p><u>Elements</u><br/>Element 3 changed from “<i>Observe safe practices during work operations</i>” to “<i>Follow safe practices during work operations</i>”</p>  |

AHC32424 Certificate III in Irrigation Technology

|      |   |   |    |  |
|------|---|---|----|--|
|      | work health and safety processes                              | and safety processes  |    | <p><u>Performance Criteria</u><br/>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><br/>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><br/>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>  |
| Core | AHCWRK309<br>Apply environmentally sustainable work practices | AHCWRK320<br>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><br/>Frequency added. Now states that there must be evidence that evidence that the individual has “<i>applied environmentally sustainable work practices on at least one occasion</i>”<br/>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><br/>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> |



AHC32424 Certificate III in Irrigation Technology

|          |  |   |    |  |
|----------|--|---|----|--|
|          |  |   |    | <u>Assessment Conditions</u> - updated   |
| Elective | AHCWRK305<br>Coordinate work site activities   | AHCWRK317<br>Coordinate work site activities  | NE | <p><u>Elements</u> - unchanged</p> <p><u>Performance Criteria</u></p> <p>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’.</p> <p>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> <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<br>Process customer complaints       | BSBOPS305<br>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<br>Use engineering workshop machines | MEMPE001<br>Use engineering workshop machines | E  | Minor changes  |
| Elective | MSTGN3003<br>Estimate and cost job             | MSTGN3023<br>Estimate and cost jobs           | E  | Minor changes  |