

# AHC21124 Certificate II in Irrigation

(was AHC21119)

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 II in Irrigation 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Superseded units / recommended replacements

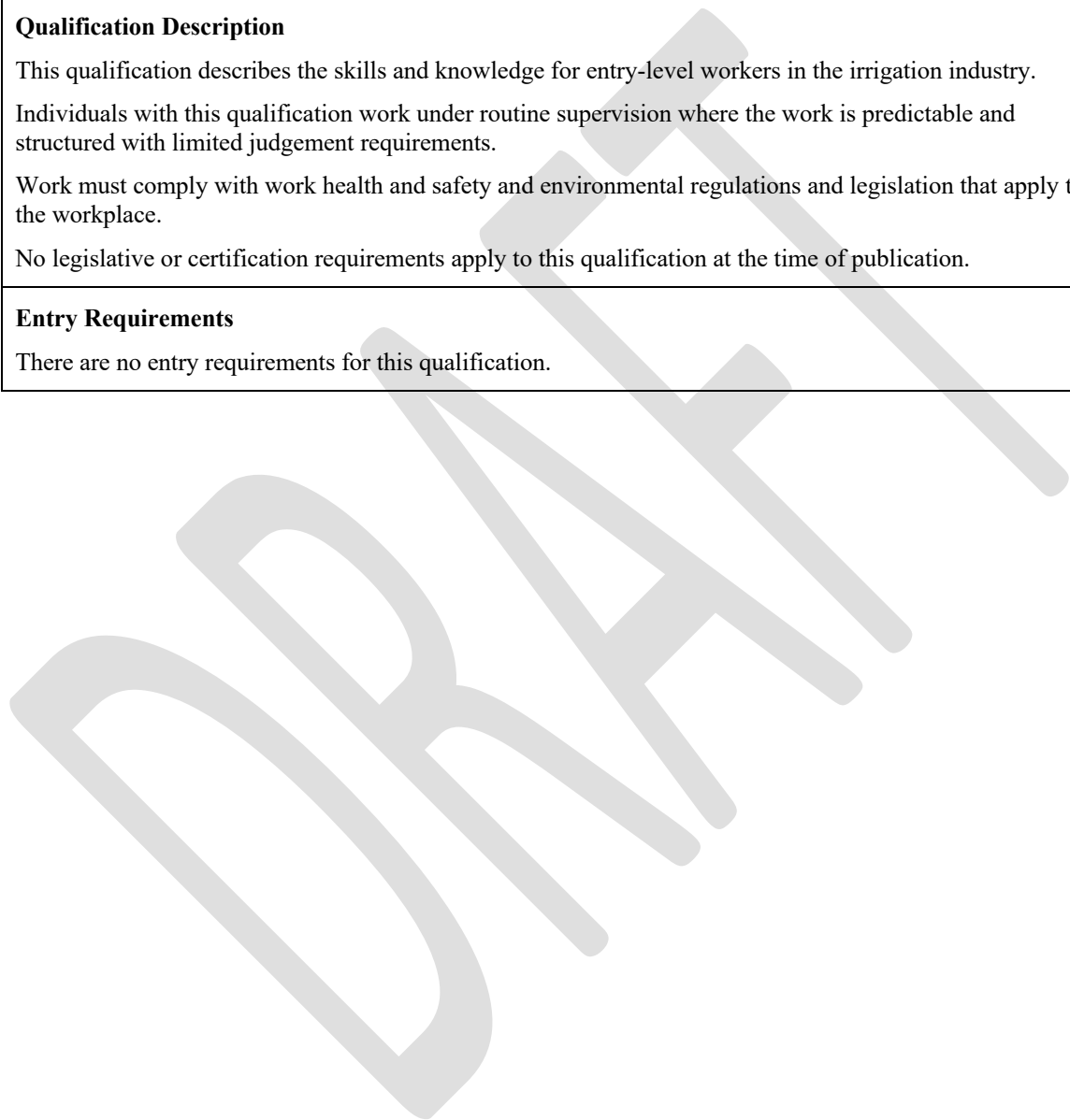
New unit

~~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. |

| AHC21124   | Certificate II in Irrigation |
|--|------------------------------|
| <p><b>Qualification Description</b></p> <p>This qualification describes the skills and knowledge for entry-level workers in the irrigation industry. Individuals with this qualification work under routine supervision where the work is predictable and structured with limited judgement requirements.</p> <p>Work must comply with work health and safety and environmental regulations and legislation that apply to the workplace.</p> <p>No 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>  |                              |



## AHC21124 Certificate II in Irrigation

### Packaging Rules

To achieve this qualification, competency must be demonstrated in:

- 16 units of competency:
  - 3 core unit 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:

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

### Core Units

|           |  |
|-----------|--|
| AHCIRG219 | Assist with low volume irrigation operations         |
| AHCIRG221 | Assist with pressurised irrigation operations        |
| AHCWHS202 | Participate in workplace health and safety processes |

### Elective Units

#### Group A

|                      |   |
|----------------------|---|
| AHCIRG220            | Assist with surface irrigation operations                 |
| AHCIRG222            | Assist with pump and flow control device operations       |
| AHCSOL203            | Assist with soil or growing media sampling and testing    |
| AHCWRK211            | Participate in environmentally sustainable work practices |
| NWPIWS002            | Operate regulating devices in rural irrigation systems    |
| <del>NWPIRR012</del> | <del>Construct open earthen channels or drains</del>      |

#### Group B

(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.)

|           |  |
|-----------|--|
| AHCDRG202 | Maintain drainage systems  |
| AHCMOM203 | Operate basic machinery and equipment                            |
| AHCPER221 | Recognise characteristics of integrated plant and animal systems |
| AHCWRK212 | Work effectively in industry                                     |
| AHCWRK213 | Participate in workplace communications                          |

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|                      |   |
|----------------------|---|
| AHCWRK216            | Provide information on products and services  |
| CPCPCM2040           | Read plans, calculate quantities and mark out materials                             |
| CPCPCM2043           | Carry out WHS requirements  |
| CPCPCM2047*          | Carry out levelling   |
| <del>NWPIRR013</del> | <del>Construct and install irrigation delivery and stormwater drainage assets</del> |
| NWPNET019            | Prepare and restore work site   |
| TLID0020             | Shift materials safely using manual handling methods                                |

### Prerequisite Units

| Unit of competency             | Prerequisite requirement              |
|--------------------------------|---------------------------------------|
| CPCPCM2047 Carry out levelling | CPCPCM2043 Carry out WHS requirements |

### Qualification Mapping Information

| Code and title current version        | Code and title previous version       | Comments   | Equivalence status |
|---------------------------------------|---------------------------------------|--|--------------------|
| AHC21124 Certificate II in Irrigation | AHC21119 Certificate II in Irrigation | Updated 1 Core unit, 12 Elective units, prerequisite requirements and removed 2 deleted 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: AHC21124 Certificate II in Irrigation (was AHC21119)**

| Unit's location in impacted qualification | Current Unit   | Replacement Unit   | Equivalence | Notes on change   |
|---|--|--|-------------|---|
| Core                                      | AHCWHS201<br>Participate in work health and safety processes           | AHCWHS202<br>Participate in workplace health and safety processes      | NE          | <p><u>Elements</u> - unchanged</p> <p><u>Performance Criteria</u> - consolidated in Elements 1 and 2<br/>PC 1.5, 1.6, 1.7 removed.<br/>Risks to fellow workers and undertaking safety training now covered under follow workplace procedures and work instructions to control risks<br/>Noise hazards and manual handling risks now covered under workplace health and safety hazards and risks</p> <p><u>Foundation Skills</u> added (Reading and Oral Communication)</p> <p><u>Performance Evidence</u><br/>Now emphasises safely completing a work task on “<i>at least one occasion</i>” instead of “<i>performance demonstrated consistently over time and in a suitable range of contexts</i>”<br/>Performance Evidence relating to “<i>identify tasks or information from labels, manuals or written instructions</i>” removed to be covered under relevant to workplace procedures for identifying tasks</p> <p><u>Knowledge Evidence</u> - consolidated<br/>Relevant machinery and equipment operator manuals now covered under workplace procedures</p> <p><u>Assessment Conditions</u> - updated</p> |
| Elective                                  | AHCWRK209<br>Participate in environmentally sustainable work practices | AHCWRK211<br>Participate in environmentally sustainable work practices | NE          | <p>Redesigned unit that includes content from <i>AHCWRK202 Observe environmental work practices</i> and <i>AHCWRK209 Participate in environmentally sustainable work practice</i></p> <p><u>Elements</u> – unchanged (compared with AHCWRK209)</p>  |

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| Unit's location in impacted qualification | Current Unit                                  | Replacement Unit                          | Equivalence | Notes on change  |
|---|---|---|-------------|--|
|   |   |   |             | <p><u>Performance Criteria</u> – minor edits for clarity</p> <p><u>Foundation Skills</u> added (Reading, Writing, Oral Communication and Numeracy)</p> <p><u>Performance Evidence</u><br/>Frequency added. Now states that the individual has “<i>participated in environmentally sustainable work practices on at least one occasion and identified and reported potential breaches on at least two occasions</i>”.</p> <p><u>Knowledge Evidence</u> - expanded to specify lists of:</p> <ul style="list-style-type: none"> <li>• environmental and resource hazards and risks relevant to industry sector</li> <li>• resources used in own industry sector</li> <li>• environmental resources used in own industry sector</li> </ul> <p><u>Assessment Conditions</u> - updated</p> |
| Elective                                  | AHCWRK204<br>Work effectively in the industry | AHCWRK212<br>Work effectively in industry | NE          | <p><u>Elements</u> - consolidated<br/>Elements 4,5,6, and 7 merged to 4 and 5:<br/>4. Participate and contribute to a productive team environment<br/>5. Confirm and undertake workplace activities</p> <p><u>Performance Criteria</u><br/>Content of 5.3, 6.1, 6.4 and 6.5 updated and now covered under Element 4<br/>5.3 Resolve where possible, through personal communication or refer to a supervisor, manager or employer for resolution<br/>6.1 Fulfil commitments to undertake work or assist co-workers<br/>6.4 Recognise and seek contributions of individuals of different gender and social and cultural backgrounds<br/>6.5 Observe and implement the principles of equal employment opportunity</p>   |

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| Unit's location in impacted qualification | Current Unit | Replacement Unit | Equivalence | Notes on change   |
|---|--------------|------------------|-------------|---|
|   |              |                  |             | <p><u>Foundation Skills</u> added (Reading and Oral Communication)</p> <p><u>Performance Evidence</u><br/>                     Now emphasises safely completing a work task on "<i>at least one occasion</i>" instead of "<i>performance demonstrated consistently over time and in a suitable range of contexts</i>"<br/>                     "Co-operated and communicated in a respectful manner" replaces:</p> <ul style="list-style-type: none"> <li>• meet the industry standard for dress</li> <li>• communicate effectively with team members and supervisors</li> <li>• use industry terminology</li> </ul> <p><u>Knowledge Evidence</u> - minor changes to update workplace terminology</p> <p><u>Assessment Conditions</u> - updated</p> |

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| Unit's location in impacted qualification | Current Unit  | Replacement Unit  | Equivalence | Notes on change   |
|---|---|---|-------------|---|
| Elective                                  | AHCWRK205<br>Participate in workplace communications      | AHCWRK213<br>Participate in workplace communications      | NE          | <p><u>Elements</u> - consolidated<br/>Elements 1 and 2 combined<br/>1. Follow routine spoken messages and 2. Perform workplace duties following routine written notices combined to:<br/>1. Follow routine workplace instructions</p> <p><u>Performance Criteria</u> – consolidated under new Element 1</p> <p><u>Foundation Skills</u> added (Writing, Oral Communication and Numeracy)</p> <p><u>Performance Evidence</u><br/>Now emphasises the individual has participated in workplace communications “<i>on at least one occasion</i>” instead of “<i>performance demonstrated consistently over time and in a suitable range of contexts</i>”<br/>Performance Evidence consolidated to emphasise communication activities relevant to the workplace and points below have been removed:</p> <ul style="list-style-type: none"> <li>• estimating, calculating and recording routine workplace measures</li> <li>• using basic mathematical processes of addition, subtraction, division, multiplication, percentages, decimal points and ratios</li> </ul> <p><u>Knowledge Evidence</u> - minor edits for clarity</p> <p><u>Assessment Conditions</u> - updated</p> |
| Elective                                  | AHCWRK208<br>Provide information on products and services | AHCWRK216<br>Provide information on products and services | NE          | <p><u>Elements</u> – unchanged</p> <p><u>Performance Criteria</u> – minor edits and simplified for clarity</p> <p><u>Foundation Skills</u> added (Reading and Oral Communication)</p>   |



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| Unit's location in impacted qualification | Current Unit  | Replacement Unit  | Equivalence | Notes on change   |
|---|---|---|-------------|---|
|   |   |   |             | <p><u>Performance Evidence</u><br/>Frequency added. Now states that the individual has “<i>provided information on products and services on at least two occasions</i>”</p> <p><u>Knowledge Evidence</u> – minor edits for clarity</p> <p><u>Assessment Conditions</u> - updated</p>  |
| Elective                                  | AHCSOL202<br>Assist with soil or growing media sampling and testing           | AHCSOL203<br>Assist with soil or growing media sampling and testing           | NE          | <p><u>Elements</u><br/>New element added to cover the completion of sampling and testing activities</p> <p><u>Performance Criteria</u><br/>New content included to outline steps in the sampling and testing process</p> <p><u>Foundation skills</u> added (Reading, Writing, Oral communication)</p> <p><u>Performance Evidence</u><br/>Frequency added. Now states that the “<i>individual has sampled and tested soil or growing media on at least two occasions</i>”</p> <p><u>Knowledge Evidence</u> – minor changes for clarity</p> <p><u>Assessment Conditions</u> - updated</p> |
| Elective                                  | AHCPER209<br>Recognise characteristics of integrated plant and animal systems | AHCPER221<br>Recognise characteristics of integrated plant and animal systems | NE          | <p><u>Elements</u><br/>Two new elements to emphasise understanding of animal and plant interactions at a permaculture site</p> <p><u>Performance Criteria</u></p>   |

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| Unit's location in impacted qualification | Current Unit  | Replacement Unit  | Equivalence | Notes on change   |
|---|---|---|-------------|---|
|   |   |   |             | <p>Revised to better align to job-specific outcomes</p> <p><u>Performance Evidence</u><br/>Frequency added. Now states that the individual “<i>recognises the characteristics of the integration of plants and animals in a permaculture system on at least one occasion</i>”</p> <p><u>Knowledge Evidence</u> – minor changes for clarity</p> <p><u>Assessment Conditions</u> - updated</p>  |
| Elective                                  | CPCPCM2040A<br>Read plans and calculate plumbing quantities | CPCPCM2040<br>Read plans, calculate quantities and mark out materials | NE          | <p>Title change</p> <p>Redesigned unit that includes content from <i>CPCPCM2040A Read plans and calculate plumbing quantities</i> and, <i>CPCPCM2050A Mark out materials</i></p> <p>Updated to meet the <i>Standards for Training Packages 2012</i></p> <p>Elements - reduced from 8 to 3</p> <p>Two pre-requisite units now included:<br/><i>CPCPCM2043 Carry out WHS requirements</i><br/><i>CPCPCM3024 Prepare simple drawings</i></p> <p><u>Performance Evidence</u><br/>Frequency added in accordance with <i>Standards for Training Packages 2012</i></p> |
| Elective                                  | CPCPCM2047A<br>Carry out levelling                          | CPCPCM2047<br>Carry out levelling                                     | NE          | <p>Prerequisite unit updated – <i>CPCPCM2043 Carry out WHS requirements</i></p> <p>Changes to performance criteria, required skills and knowledge, range statement and critical aspects</p>   |

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| Unit's location in impacted qualification | Current Unit   | Replacement Unit  | Equivalence | Notes on change |
|---|--|---|-------------|-----------------|
| Elective                                  | CPCPCM2043A<br>Carry out WHS requirements  | CPCPCM2043<br>Carry out WHS requirements                            | E           | Minor changes   |
| Elective                                  | NWPIRR002<br>Operate basic flow control and regulating devices in irrigation systems | NWPIWS002<br>Operate regulating devices in rural irrigation systems | E           | Minor changes   |
| Elective                                  | NWPNET002<br>Prepare and restore work site   | NWPNET019<br>Prepare and restore work site                          | E           | Minor changes   |
| Elective                                  | TLID1001 Shift materials safely using manual handling methods                        | TLID0020 Shift materials safely using manual handling methods       | E           | Minor changes   |
| Elective                                  | NWPIRR012<br>Construct open earthen channels or drains                               | Deleted   |             |                 |
| Elective                                  | NWPIRR013<br>Construct and install irrigation delivery and stormwater drainage asset | Deleted   |             |                 |