



Australian Government

AHCIRG342 Interpret irrigation plans and drawings

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to read and interpret plans and drawings, mark out and peg a site from a plan and identify required components applicable to installing irrigation systems.

The unit applies to individuals who interpret irrigation plans and drawings under broad direction and take responsibility for their own work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Irrigation (IRG)

Elements and Performance Criteria

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. Apply commonly used symbols and abbreviations	1.1 Identify, understand and apply commonly used symbols and abbreviations on plans 1.2 Identify, understand and apply common irrigation terms used on plans 1.3 Identify key features of irrigation plans, elevations and sections 1.4 Identify scale, elevations and sections from drawings

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. Locate and identify key features on a site plan	2.1 Identify irrigation site from location drawings 2.2 Identify true north and system orientation from details provided on site plan 2.3 Identify key features of site plan
3. Mark out and peg the site from a plan	3.1 Mark boundaries of the site 3.2 Identify existing irrigation infrastructure on the site 3.3 Identify electricity and communications infrastructure on the site plan, mark out and implement safety procedures 3.4 Peg out pipelines and earthworks identified on the plan
4. Identify required components for installation	4.1 Annotate required pipeline components from plans and drawings 4.2 Annotate water supply, distribution and delivery components from plans and drawings 4.3 Make provision for receipt and storage of materials on site 4.4 Confirm installation requirements and details of plans and drawings with supervisor

Foundation Skills

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.

Skill	Description
Reading	Interpret textual information from a range of sources to identify relevant and key information about workplace operations
Writing	Document pipeline components, and water supply, distribution and delivery components from plans and drawings
Oral communication	Use clear language to confirm installation requirements and details of plans and drawings
Numeracy skills	- Measure site to translate documented requirements to on-site activities - calculate material requirements
Navigate the world of	Recognise and follow workplace requirements, including safety

Skill	Description
work	requirements, associated with own role and area of responsibility

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCIRG342 Interpret irrigation plans and drawings	AHCIRG315 Interpret irrigation plans and drawings	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent unit

Links

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

Assessment Requirements for AHCIRG342 Interpret irrigation plans and drawings

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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 interpreted irrigation plans and drawings on at least one occasion and has:

- interpreted symbols and abbreviations used on plans
- interpreted scale and specifications from plans and drawings
- recognised and marked out features on a site from a plan
- marked out boundaries and infrastructure position from a plan
- used basic industry calculations
- translated documented requirements into on-site activities and site and structural features from two-dimensional to three-dimensional formats.

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:

- commonly used scales, symbols and abbreviations
- principles and practices of plan and drawing interpretation
- drawings and specifications relevant to the irrigation industry
- measurements, calculations and quantities
- tools, equipment and materials required from the drawings and specifications.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - compass

- on-site marking out and measuring tools and equipment
- specifications:
 - irrigation site plans and drawings
- relationships:
 - supervisor
- timeframes:
 - according to job requirements.

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

Links

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