



Australian Government

CPCPIG3021 Set out, install and commission irrigation systems

Release: 1

CPCPIG3021 Set out, install and commission irrigation systems

Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCPIG3021A Set out, install and commission irrigation systems. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to set out, install and commission irrigation systems.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

Pre-requisite Unit

CPCPCM2043 Carry out WHS requirements

Unit Sector

Plumbing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

- | | |
|---------------------|---|
| 1 Prepare for work. | 1.1 Obtain plans and specifications. |
| | 1.2 Adhere to work health and safety (WHS) and environmental requirements associated with setting out, installing and commissioning irrigation systems throughout work. |
| | 1.3 Identify and adhere to quality assurance requirements according to workplace requirements. |
| | 1.4 Plan and sequence tasks in conjunction with others involved in or affected by the work and statutory and regulatory authorities' requirements. |

- 1.5 Select and check tools and equipment, including personal protective equipment (PPE), for setting out, installing and commissioning irrigation systems for serviceability.
 - 1.6 Prepare work area to support efficient setting out, installation and commissioning of irrigation systems.
- 2 Identify installation requirements.
 - 2.1 Identify irrigation system requirements from plans, specifications and relevant information.
 - 2.2 Locate and identify underground services.
 - 2.3 Check flow rate and water pressure for compliance with plans and specifications.
 - 2.4 Select piping and system components to comply with standards, plans and specifications.
 - 2.5 Identify, order and collect materials and equipment according to workplace procedures.
 - 2.6 Check materials and equipment for compliance with standards, docket and order form, and for acceptable condition.
- 3 Install and commission irrigation system.
 - 3.1 Set out irrigation pipes according to plans, specifications and site requirements.
 - 3.2 Excavate pipe trenches according to plans and specifications.
 - 3.3 Install pipe system according to plans, specifications, site requirements, manufacturer recommendations and standards, and sustainability principles and concepts.
 - 3.4 Flush pipelines of air and foreign matter to installation standard.
 - 3.5 Install backflow prevention device according to standards.
 - 3.6 Install and adjust water emitters to produce required spray pattern.
 - 3.7 Install, operate and adjust control valves to achieve

specified flow rate.

3.8 Test and adjust installation to comply with standards and authorities' requirements.

3.9 Backfill trenches according to plans and specifications and reinstate ground surface.

4 Clean up.

4.1 Clear work area and dispose of reused or recycled materials according to legislation, regulations, codes of practice and job specification.

4.2 Clean, check, maintain and store tools and equipment according to manufacturer recommendations and workplace procedures.

4.3 Complete documentation according to workplace requirements.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPCPIG3021A Set out, install and commission irrigation systems

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>