



Australian Government

NWPIRR013 Construct and install irrigation delivery and stormwater drainage assets

Release: 1

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Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to NWP252B Construct and install irrigation delivery and stormwater drainage assets. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Element 2 reworded • PC 2.2 and 2.3 merged

Application

This unit of competency describes the skills required to construct irrigation delivery or stormwater drainage assets on site and to install both constructed assets and prefabricated components.

This unit applies to those working as field staff with specific responsibility for ensuring that the construction and installation of irrigation or stormwater drainage assets is completed in a safe and timely manner.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to, particularly those related to WHS.

Those undertaking this unit would work under indirect supervision, while performing routine tasks and ensuring minimum damage to the environment, in a familiar context.

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

Competency Field

Irrigation

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Plan and prepare for work	1.1 Determine work requirements from specifications and instructions. 1.2 Select, fit and use personal protective equipment. 1.3 Perform site check to identify hazards and prevent damage to other utilities. 1.4 Provide appropriate drainage and diversion from work site. 1.5 Check equipment and excavation methods to meet safety requirements of task and site.
2. Construct and install drains, channels and associated fittings	2.1 Provide bedding and foundations according to structure type, location and specification. 2.2 Select, place and install prefabricated components and fittings. 2.3 Check installed fittings and prefabricated components to ensure that specifications are met. 2.4 Construct components on-site.
3. Finalise work	3.1 Check constructions and installations to ensure that specifications are met. 3.2 Check, maintain and store equipment, tools and materials. 3.3 Backfill, compact and restore work site. 3.4 Maintain workplace records.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning NA					Reading					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

This unit supersedes and is equivalent to NWP252B Construct and install irrigation delivery and stormwater drainage assets.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

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Assessment Requirements for NWPIRR013 Construct and install irrigation delivery and stormwater drainage assets

Modification History

Release	Comments
1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages. • Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- identifying and responding to operational problems
- producing reports and logs
- using safety and personal protective equipment
- using tools and machinery
- interpreting plans, charts and instructions
- performing work related calculations
- applying procedures and standards
- using communication equipment
- constructing and installing irrigation delivery or stormwater drainage assets
- planning work and preparing work site
- constructing assets
- installing assets
- checking that work meets specifications
- cleaning and storing equipment
- restoring work site
- completing documentation

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- system layout
- environmental aspects of construction
- construction processes
- relevant utilities and service providers
- communication systems
- hazardous materials handling
- landscape and ground structure of work area
- risk factors and potential hazards of construction processes
- equipment operation, capacity and limitations
- effects of weather and conditions on construction site or plant
- control systems
- pre-cast components
- pipes and fittings

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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