



Australian Government

RIIWMG203D Drain and dewater civil construction site

Release: 3

RIIWMG203D Drain and dewater civil construction site

Modification History

Release	Comment
1	The unit replaces RIIWMG203A Drain and dewater civil construction site
2	Editorial corrections.
3	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit develops a participant's skills and knowledge required to drain and dewater civil construction sites in Civil construction.

This unit is appropriate for those working in operational roles.

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

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare for draining and dewatering	1.1 Access, interpret and apply drain and dewatering documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify, obtain and implement traffic signage requirements 1.4 Select and inspect required plant, tools and equipment and rectify/report any faults 1.5 Identify, clarify and apply environmental protection requirements 1.6 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.7 Select and wear personal protective equipment appropriate for
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	work activities
2. Position sedimentation control	2.1 Position sedimentation controls 2.2 Construct sedimentation control barriers 2.3 Position geo-fabrics and/or woven wire
3. Remove surface water	3.1 Establish temporary drainage systems and drain or divert surface and sub-surface water to the storm water drainage system 3.2 Remove slab and site surface water and/or direct to the temporary drainage system 3.3 Fill surface holes and depressions 3.4 Drain surface water to drainage system using adequate fall
4. Construct sump/wells	4.1 Locate sump and/or well at the lowest point to be drained 4.2 Construct sumps and/or wells
5. Remove water from sumps/wells, trenches and pits	5.1 Install surface or submersible pumps 5.2 Locate surface pump as close as practicable to the sump or well 5.3 Pump water to temporary drainage system 5.4 Disperse discharged water
6. Clean up	6.1 Clear work area and dispose of or recycle materials 6.2 Clean, check, maintain and store plant, tools and equipment

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIWMG203A Drain and dewater civil construction site

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIIWMG203D Drain and dewater civil construction site

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of the draining and dewatering of a civil construction site including:
 - selecting and using the required tools and equipment
 - interpreting and applying work instructions
 - draining surface water
 - constructing sumps and wells and removing water
- works effectively with others to undertake and complete the draining and dewatering of civil construction sites that meets all of the required outcomes including:
 - using a range of communication techniques to convey information to others
 - maintaining written and verbal reporting requirements and procedures
- demonstrates completion of draining and dewatering civil construction sites that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - dewatering a trench or pit using at least one type of pump
 - establishing sedimentation controls
 - constructing a sump
 - installing surface or submersible pumps

- pumping and dispersing water
- draining surface water from a site using surface drains

Knowledge Evidence

The candidate must demonstrate knowledge in draining and dewatering civil construction sites through:

- identifying and applying operational, maintenance and basic diagnostic procedures
- identifying and complying with construction principles
- interpreting engineering drawings
- identifying equipment types, characteristics, technical capabilities and limitations
- identifying and complying with site isolation and traffic control responsibilities
- using and interpreting civil construction terminology

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal	1	1 Year

Mining, Extractive (Quarrying) and Civil Construction	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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