



Australian Government

RIIWMG301D Control construction site water table

Release: 3

RIIWMG301D Control construction site water table

Modification History

Release	Comment
1	The unit replaces RIIWMG301A Control construction site water table
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 control a construction site water table 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 site water table construction	1.1 Access, interpret and apply site water table construction 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 or report any faults 1.5 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.6 Select and wear personal protective equipment appropriate for work activities
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2. Install site drainage/ dewatering system	2.1 Identify proposed permanent stormwater outlets from site plans and drawings 2.2 Erect barricades around the excavation/ installation area 2.3 Construct sumps and wells 2.4 Install well points, spears or wick drains 2.5 Place gravel and filter material in spears, sumps and wells to level above that of existing water table 2.6 Install surface or submersible pumps in designated locations 2.7 Connect suction hoses to sumps, wells, spears and pumps 2.8 Fit pipes and hoses to well points, spears and pumps
3. Establish stormwater treatment system	3.1 Set out holding pond and support construction operations 3.2 Monitor, assess and rectify water quality and treatment 3.3 Release water which meets the approved quality criteria into the main system
4. Operate and maintain drainage and dewatering system	4.1 Activate pumps to lower water table level 4.2 Maintain pumps 4.3 Maintain site drainage and dewatering system and maximise water flow to project requirements
5. Remove and restore area	5.1 Disconnect and remove pumping system 5.2 Withdraw and remove well points and spears 5.3 Restore area according to environmental management plan
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

RIIWMG301A Control construction site water table

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 RIIWMG301D Control construction site water table

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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 control of a construction site water table including:
 - selecting and using the required tools and equipment
 - installing site drainage/dewatering system
 - establishing a stormwater treatment system
 - operating and maintaining drainage/dewatering systems
- demonstrates completion of controlling construction site water table that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - installing a drainage/dewatering system that involves spearing
 - installing a drainage/dewatering system that requires the establishment and operation of a treatment system

Knowledge Evidence

The candidate must demonstrate knowledge in controlling construction site water tables through:

- interpreting engineering drawings

- accessing and applying project quality requirements
- identifying, using and applying terminology, definitions and installation methods
- identifying, assessing and addressing hazardous materials and situations
- identifying and addressing environmental, erosion, sedimentation and waste disposal issues
- identifying dewatering system equipment characteristics, technical capabilities and limitations
- identifying and applying dewatering system operational, maintenance and basic diagnostic procedures
- identifying and complying with site isolation and traffic control responsibilities
- identifying and using 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 Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	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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