



Australian Government

RIICTB309D Construct, maintain and remove coffer dams

Release: 2

RIICTB309D Construct, maintain and remove coffer dams

Modification History

Release	Comment
1	This unit replaces RIICTB309A Construct, maintain and remove coffer dams
2	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 describes a participant's skills and knowledge required to construct, maintain and remove coffer dams in the Civil Construction Industry.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare to construct and remove coffer dams	1.1 Access, interpret and apply coffer dams documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify, address and report hazards, risks and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Confirm and apply environmental protection and safety requirements 1.6 Obtain, interpret and implement traffic management signage requirements 1.7 Select and check for faults plant, tools and equipment to carry
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	out tasks 1.8. Identify, confirm, safely handle and locate, ready for use, materials required for the work application 1.9. Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Construct and maintain dam	2.1. Contact utilities to check placement of marine cables before coffer dam construction 2.2. Drive sheet piles into location 2.3. Brace sheet piles 2.4. Dewater and caulk dammed area 2.5. Install sump and/or pump to remove excess water seepage 2.6. Remove mud manually from dammed area 2.7. Level dammed area ready for bridge work to commence
3. Remove coffer dam	3.1. Clear dammed area of any refuse or construction waste 3.2. Remove temporary concrete slab, where used 3.3. Flood coffer dam 3.4. Remove sheet pile 3.5. Extract and dismantle sheet piling allowing waterway to restore its original flow
4. Clean up	4.1. Clear work area and dispose of or recycle materials 4.2. Clean, check, maintain and store machinery, 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

RIICTB309A Construct, maintain and remove coffer dams

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 RIICTB309D Construct, maintain and remove coffer dams

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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 applicable legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of construction, maintenance and removal of coffer dams including:
 - selecting and using the required tools and equipment
 - checking placement of marine cables before coffer dam construction
 - driving and bracing sheet piles
 - dewatering, levelling and maintaining dammed area
 - removing coffer dam
- works effectively with others to undertake and complete the construction, maintenance and removal of coffer dams that meets all of the required outcomes including:
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
 - using a range of communication techniques and systems such as signage to advise others of work activity and exclusion zone
- demonstrates completion of constructing, maintaining and removing coffer dams that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying, reporting and recording hazards and risks
 - construction, maintenance and removal of at least one (1) coffer dam, with at least four (4) sheet piles, large enough to require bracing

Knowledge Evidence

The candidate must demonstrate knowledge of the construction, maintenance and removal of coffer dams through:

- applying legislative, organisational and site requirements and procedures for:
 - site and equipment safety requirements
 - boat and water safety
 - sheet piling
 - environmental protection act
 - dewatering
 - caulking
 - dial before you dig
 - bridge foundations
 - bridge heritage
 - calculation of material requirements
- identifying equipment types, characteristics, technical capabilities and limitations
- applying and monitoring operational, maintenance and basic diagnostic procedures
- applying site isolation and traffic control responsibilities and authorities
- interpreting and complying with materials safety data sheets and materials handling methods
- monitoring quality assurance systems and standards
- preparing and/or implementing JSAs/safe work method statements

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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