



Australian Government

RIICTT310D Renovate large diameter pipes and chambers

Release: 2

RIICTT310D Renovate large diameter pipes and chambers

Modification History

Release	Comment
1	This unit replaces RIICTT310A Renovate large diameter pipes and chambers
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 develops a participant's skills and knowledge required to renovate large diameter pipes and chambers 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 to renovate large diameter pipes and chambers	1.1 Access, interpret and apply documentation and procedures to renovate large diameter pipes and chambers and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Obtain and confirm safety requirements from the site safety plan 1.6 Identify, obtain and implement signage requirements from the project traffic management plan 1.7 Identify and select plant, tools and equipment, check for
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	serviceability and rectify or report any faults 1.8 Identify and confirm environmental protection requirements from the project environmental management plan
2. Perform site survey	2.1 Notify and obtain approval from property owners and occupiers for entry onto their property 2.2 Determine site conditions by visual inspection, plans, discussion with land owners and information from service utilities 2.3 Locate underground utilities 2.4 Maintain system serviceability during rehabilitation works 2.5 Survey and record existing site conditions
3. Initiate rehabilitation work	3.1 Prepare entry and exit pits where specified 3.2 Identify, interpret and apply confined space entry procedures 3.3 Monitor installation process and finished product to ensure conformity to the design requirements
4. Undertake renovation of large diameter pipes and chambers	4.1 Determine fault by physical inspection 4.2 Select renovation method appropriate to the fault 4.3 Piece together or patch fractured or ruptured section 4.4 Complete renovation 4.5 Conduct curing process 4.6 Correctly secure and seal termination at ends of process 4.7 Open junctions for inspection and operation 4.8 Monitor installation process and finished product to ensure conformity to the design requirements
5. Clean up	5.1 Clear work area and dispose of, reuse or recycle materials 5.2 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

RIICTT310A Renovate large diameter pipes and chambers

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 RIICTT310D Renovate large diameter pipes and chambers

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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 documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient renovation of large diameter pipes and chambers including:
 - selecting and using the required tools and equipment
 - determining site conditions and locating underground utilities
 - preparing exit and entry pits
 - undertaking confined space entry
 - identifying and selecting renovation methods
 - monitoring installation process and the finished product
 - completion of the at least two different renovations of large diameter pipes and chambers
- works effectively with others to undertake and complete the renovation of large diameter pipes and chambers that meets all of the required outcomes including:
 - using a range of communication techniques and equipment to convey information to others
 - maintaining written and verbal reporting requirements and procedures
 - organising work activities to meet all task requirements
- demonstrates completion of renovating large diameter pipes and chambers that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- completing a minimum of two (2) different renovations of large diameter pipes and chambers
- identify, obtain, confirm and apply work, safety and signage instructions and requirements
- cleaning, checking, maintaining and storing plant, tools and equipment

Knowledge Evidence

The candidate must demonstrate knowledge in renovating large diameter pipes and chambers through:

- laser control equipment techniques
- manual handling techniques
- engineering drawings, plans and specifications
- equipment types, characteristics, technical capabilities and limitations
- site isolation and traffic control responsibilities
- safety data sheets and materials handling methods
- pipeline systems
- 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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