



Australian Government

RIICPL301D Install water mains pipelines

Release: 3

RIICPL301D Install water mains pipelines

Modification History

Release	Comment
1	This unit replaces RIICPL301A Install water mains pipelines.
2	Editorial corrections.
3	Performance Criteria wording amended. 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 install water mains pipelines in Civil Construction.

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 for installing water mains pipelines	1.1 Access, interpret and apply water mains pipelines documentation and ensure the work activity is compliant 1.2 Obtain, interpret, clarify and confirm work/plans/specifications requirements 1.3 Identify, obtain and implement traffic signage requirements 1.4 Select and check for faults, equipment/tools for work activities 1.5 Identify, confirm and apply environmental protection
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	requirements 1.6 Select and wear correct personal protective equipment appropriate for work activities 1.7 Identify, address and report potential hazards and risks 1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Set out and excavate	2.1 Prepare work area and materials 2.2 Determine and apply dewatering requirements 2.3 Determine the location, alignment direction, level and grade of mains pipe system 2.4 Set out works to specification 2.5 Advise plant operator of excavation requirements and monitor levels 2.6 Install mains pipe system support mechanism
3. Install mains pipeline	3.1 Lower and place pipes in position 3.2 Join pipes correctly 3.3 Place pipes and fit valves, fittings and flow control devices 3.4 Continuously check, alignment level and grade for conformance 3.5 Position side support and/or overlay beside the pipes 3.6 Check mains pipe system support structure 3.7 Monitor backfill procedure and ensure work is completed to specification 3.8 Construct valve chambers, minor structures and thrust blocks
4. Test mains pipe system	4.1 Perform mains pipe system test procedures establishing pressurisation, functionality and serviceability 4.2 Record in writing and report test results
5. Clean up	5.1 Clear work area and dispose of 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

RIICPL301A Install water mains pipelines

Links

Companion Volume implementation guides are found in VETNet -

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