



Australian Government

RIICPL401D Apply the principles for the installation of underground service using open excavation

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICPL401A Apply the principles for the installation of underground service using open excavation
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 apply the principles for the installation of underground service using open excavation in Civil construction.

This unit is appropriate for those working in supervisory or technical specialist roles.

No licensing 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 underground service installation	1.1 Access, interpret and apply underground service documentation and ensure the work activity is compliant 1.2 Review the installation and identify required tasks 1.3 Access, interpret and clarify the specific task information and requirements 1.4 Ensure a job plan is available which makes best use of the available resources and meets task requirements
2. Ensure appropriate initiation of tasks is carried out	2.1 Confirm that the necessary resources are available for the safe, effective and efficient conduct of the tasks 2.2 Ensure clear and timely instructions are communicated to team members and others involved

	2.3 Set out tasks as required for the job plan
3. Oversee the execution of tasks	3.1 Monitor the installation against required outcomes and identify performance gaps 3.2 Initiate adjustments to work practice/job plan and ensure achievement of required outcomes 3.3 Ensure plant equipment and tools maintenance requirements are carried out and recorded in writing
4. Report on the execution of tasks	4.1 Complete and submit written reports 4.2 Recommend changes to improve the safety, efficiency and effectiveness of the execution of tasks

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

RIICPL401A Apply the principles for the installation of underground service using open excavation

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 RIICPL401D Apply the principles for the installation of underground service using open excavation

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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 legislation, documentation, policies and procedures
- implements appropriate procedures and techniques for the safe, effective and efficient supervision of installation of underground service using open excavation tasks including:
 - identifying and interpreting relevant information and data
- calculating quantities for the execution of tasks, including:
 - volumes
 - grades
 - percentages
 - areas
 - resource consumption figures, including required supply rates
- works effectively with others to plan, prepare and conduct for the installation of underground service using open excavation tasks including:
 - providing clear and timely instruction and supervision using a range of communication techniques to those involved
 - preparing for and conducting briefings, toolbox and site meeting
 - maintaining clear and legible written records and reporting systems
- demonstrates completion of the principles for the installation of underground service using open excavation that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- supervising others in the installation of underground service using open excavation tasks
- organising availability of necessary resources
- monitoring required outcomes and identifying performance gaps
- recommending changes to improve the execution of tasks

Knowledge Evidence

The candidate must demonstrate knowledge in applying the principles for the installation of underground service using open excavation through:

- applying organisation, site requirements and procedures for:
 - risk assessment and management
 - statutory compliance
 - work health and safety
 - environmental management
 - shoring and slope management
 - quality management
 - work zone traffic management
 - contract management
- managing open excavation underground service installation
- plant and equipment capabilities and application
- implementing plant, equipment and tools maintenance requirements and procedures
- assessing operational techniques
- assessing resource requirements and procedures
- scheduling tasks/activities
- scheduling materials delivery requirements and procedures
- implementing workplace relationship requirements and procedures
- managing client and site operational requirements
- identifying relationship between various areas of civil works
- using team leadership techniques
- using works planning techniques
- identifying engineering survey principles
- using estimating principles
- using civil works construction sequencing and terminology
- identifying related underground services and utilities

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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