



Australian Government

Assessment Requirements for RIIICPL303E Install sewer pipelines

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 6.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- install sewer pipelines on at least two occasions, including:
 - determining location, alignment direction, level and grade of sewer pipeline
 - installing sewer pipeline bedding
 - installing at least 100 metres of sewer pipe
 - constructing manholes, inspection and valve chambers, minor structures and thrust blocks
 - completing pipe joins
 - performing test procedures, establishing functionality and serviceability.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures
- implement the requirements, procedures and techniques to install sewer pipelines, including:
 - applying problem solving and troubleshooting techniques
 - applying diagnostic techniques
 - completing written and verbal reporting requirements and procedures
- work with others to undertake and complete the installation of sewer pipelines that meets all required outcomes, including:
 - communicating with others to confirm work plans and specifications
 - using communication techniques and equipment to convey information to others

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- legislation required to install sewer pipelines
- policies, procedures and documentation required to install sewer pipelines, including those relating to:
 - hazard identification, risk assessment and response
 - project quality measures
 - using tools and equipment
 - maintaining excavation and trench safety
 - confined space entry
 - site dewatering
 - emergency response
 - work health and safety
 - environmental protection
 - waste management
 - communication techniques and equipment
 - operational, maintenance and basic diagnostic procedures
 - job plans and specifications
 - site isolation and traffic control responsibilities and authorities
 - manufacturer specifications for required plant and equipment
 - workplace recording requirements
- civil construction terminology relevant to installing sewer pipelines
- principles and techniques for effective installation of sewer pipelines, including those relating to:
 - using and installing sewer pipe systems
 - identifying mains pipe and utility services
 - using concrete and concrete fabrication
 - using sedimentation and erosion controls
 - reading and interpreting engineering drawings
 - identifying valves and flow control devices
 - construction of water reticulation
 - calculations for pipeline grades and percentages
- types, characteristics, technical capabilities and limitations of plant and equipment required to install sewer pipelines
- components of job safety analyses (JSAs), job safety environmental analyses (JSEAs), safe work method statements (SWMS)
- components of safety data sheets (SDS) and materials handling methods.
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Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:

- personal protective equipment
- equipment required to install sewer pipelines
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

• Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous	1	1 year

Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

Links

Companion Volume Implementation Guide is found on VETNet -

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