



Australian Government

Assessment Requirements for RIICSG406E Supervise maintenance of civil structures

Release: 1

Assessment Requirements for RIICSG406E Supervise maintenance of civil structures

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:

- supervise maintenance of civil structures on at least two occasions, including:
 - interpreting project contract specification requirements
 - applying procedures to problem solve
 - making decisions for activity
 - carrying out continuous improvement in meeting task outcomes.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures
- implement procedures and techniques for the supervision of civil structures maintenance tasks, including:
 - calculating quantities for executing tasks, including:
 - volumes
 - grades
 - percentages
 - areas
 - resource consumption figures, including required supply rates
 - interpreting civil concrete structure construction materials properties and test results
- work with others to plan, prepare and conduct civil structure maintenance tasks, including:
 - using communication techniques and equipment to provide instruction and supervision to those involved in civil structure maintenance tasks
 - preparing for and conducting briefings, toolbox and site meeting
 - completing written records and reporting systems, including:
 - preparing and presenting job reports
 - preparing and maintaining logbooks and diaries.

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 supervise maintenance of civil structures
- policies, procedures and documentation required to supervise maintenance of civil structures, including those relating to:
 - risk assessment and management
 - statutory compliance
 - communication techniques and equipment
 - organisational, client and site operational requirements
 - work health and safety
 - emergency response
 - environmental management
 - quality management
 - materials quality and delivery
 - culture and heritage of site
 - coordination, timing and budgeting
 - workplace relationships
 - assessing operational techniques
 - assessing resource requirements
 - reporting requirements, including
 - task specifications
 - job plan
 - task drawings
 - activity scheduling
 - unit costs
 - overall task costs
- principles and techniques required to supervise maintenance of civil structures, including those related to:
 - civil structures, including:
 - concrete structures
 - steel structures
 - timber structures
 - masonry, crib and gabion structures
 - civil structures maintenance tasks, including:
 - confirmation of condition of structure through inspection and testing
 - cleaning, refurbishing, replacement and painting
 - task specific information and requirements, including:
 - site geological, geotechnical, hydrological and meteorological data
 - site engineering survey data

- job plan development
- devising and implementing training plans
- team leadership
- mentoring
- estimating
- civil works construction sequencing
- civil structures maintenance monitoring
- set out requirements and procedures
- pavement drainage requirements
- civil structures plant and equipment capabilities and application, including maintenance requirements
- relationship between various areas of civil works
- civil structures maintenance and related activities terminology.
-

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - equipment required to supervise maintenance of civil structures
- 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 Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	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 Companion Volume 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>