



Australian Government

Assessment Requirements for RIICWD502D Prepare detailed design of lighting

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICWD502A Prepare detailed design of lighting
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.

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 the requirements, procedures and techniques for the safe, effective and efficient completion of the detailed design of lighting including:
 - accessing and interpreting plans, drawings, specifications and design briefs
 - accessing and interpreting engineering survey information
 - accessing and interpreting meteorological, cultural and heritage data
 - accessing and interpreting lighting options selection data
 - selecting and applying appropriate construction techniques
 - applying computer aided drafting design (CADD) and drafting technology
 - applying engineering graphical presentation techniques
- works effectively with others to undertake and complete the detailed design of lighting that meets all the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to coordinate work activities
- demonstrates completion of detailed designs of lighting that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - carrying out risk assessments
 - interpreting and analysing data

- developing and applying design plans
- preparing a design plan
- preparing a cost estimate
- obtaining design approval
- completing and submitting design cost
- participating in performance review of the design process
- providing clarification and advice to those applying the design
- performing a validation of the design determining lighting capacity requirements
- maintain design and cost records
- selecting lighting options
- sizing lighting components
- calculating lighting requirements and power demand and consumption

Knowledge Evidence

The candidate must demonstrate knowledge in preparing detailed designs of lighting through:

- accessing, interpreting and applying legislative, organization and site requirements and procedures for:
 - risk assessment and management
 - statutory compliance
 - work health and safety
 - environmental management
 - cultural and heritage
 - quality management
 - Australian and other relevant standards
 - industry and organisational design
 - current industry best practice
 - lighting options
 - lighting geometrics
 - design reviews
 - documentation, recording and reporting
 - design approvals
 - performance reviews
 - system close out
- potential hazards, constraints and conditions
- techniques for choosing preferred options
- team leadership techniques
- operational techniques
- lighting equipment capabilities
- power demand and consumption principles

- lighting construction plant and equipment capabilities
- cost estimation techniques
- principles of road user behaviour

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 is best assessed in the context of this sector's work environment; and,
- outcomes of this unit that occur in an office-based setting may be assessed in a simulated 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; 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.
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*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

Links

Companion Volume implementation guides are found in VETNet -

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