



Australian Government

RIIRAI503D Implement site services and infrastructure systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIRAI503B Implement site services and infrastructure systems
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 implement site services and infrastructure systems in Coal and Metalliferous mining.

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

No licensing, legislative or certification requirements apply to this unit at the time of publication

Unit Sector

Coal mining

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for site services and infrastructure systems implementation	1.1 Access, interpret and apply site services and infrastructure systems documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Identify the purpose of site services and infrastructure systems and equipment 1.6 Identify and record site requirements for the implementation 1.7 Access, identify and interpret the specification for the site
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	services and infrastructure equipment 1.8 Identify, clarify, in consultation, and communicate roles and responsibilities of individuals and work teams 1.9 Identify training needs and develop training plans
2. Implement installation and commissioning procedures	2.1 Identify and address hazards and risks associated with the installation of site services and infrastructure equipment and systems 2.2 Integrate new and existing work systems/processes/plant to achieve required outcomes 2.3 Implement site procedures 2.4 Implement site services and infrastructure transport and installation procedures 2.5 Implement site services and infrastructure commissioning procedures 2.6 Implement the site services and infrastructure training plan 2.7 Identify and implement changes to equipment and systems to satisfy required changes arising from the commissioning process 2.8 Implement emergency response and evacuation plans and procedures
3. Implement systems for the operation and maintenance of site services and infrastructure and equipment	3.1 Implement operational procedures 3.2 Implement maintenance procedures 3.3 Implement and apply procedures for reviewing and modifying work processes
4. Implement systems for audit and review of site services and infrastructure and equipment	4.1 Audit site services and infrastructure system and equipment for compliance with legislative and site requirements 4.2 Audit site services and infrastructure system and equipment maintenance for currency and compliance with legislative and site requirements 4.3 Audit reporting and recording systems for compliance with legislative and site requirements 4.4 Audit emergency response and evacuation plans and procedures for compliance with site requirements 4.5 Audit the training plan for currency, relevance and compliance with site requirements 4.6 Report audit findings and recommendations

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

RIIRAI503B Implement site services and infrastructure systems

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 RIIRAI503D Implement site services and infrastructure systems

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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 procedures and techniques for the safe, effective and efficient implementing of site services and infrastructure systems including:
 - providing team leadership
 - identifying and addressing training needs
 - implementing hazard identification and risks assessment processes
 - managing work planning and coordination activities
 - accessing, interpreting and applying manufacturer's instructions
- accessing, interpreting and applying:
 - technical information
 - briefings and handover details
 - site/legislative requirements
 - records and reports
 - applying maintenance survey procedures
 - demonstrates the identification and selection of viable options for the implementation of site services and infrastructure systems that best meet the required outcomes through:
 - accessing, interpreting and applying safety design features of the systems
 - accessing, interpreting and applying maintenance and modification systems implementation requirements and procedures

- works effectively with others to undertake and complete the implementation of site services and infrastructure systems including:
 - managing people and processes
 - resolving conflict
 - coordinating human, financial and physical resources
 - developing, initiating and administering work plans
 - interpreting and applying operational performance data
 - engaging internal and external stakeholders
- demonstrates completion of the implementation of site services and infrastructure system that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identification of the relevant information and scope of the work
 - identifying the full range of specification requirements
 - identifying all aspects of the site services and infrastructure systems
 - managing the audit and review processes

Knowledge Evidence

The candidate must demonstrate knowledge in implementing site services and infrastructure systems through:

- legislative, Australian standards organisation and site requirements and procedures for;
- emergency response and disaster planning processes
- audit review
 - site document control
 - site environmental monitoring
 - risk management
 - site reporting
 - managing energy sources including electrical, hydraulic, pneumatic, diesel
- site design relating to site services and infrastructure systems
- computer based systems
- firefighting systems and precaution rules
- safety design features for maintenance of site services and infrastructure systems
- stores systems
- roadway maintenance and drilling program
- protection systems
- reticulation systems
- specifications for site services and infrastructure

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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