



**Australian Government**

# **RIIRAI604E Establish and maintain mine services and infrastructure systems**

**Release: 1**

# RIIRAI604E Establish and maintain mine services and infrastructure systems

## Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

## Application

This unit describes the skills and knowledge required to establish and maintain mine services and infrastructure systems in coal mining, including developing installation and commissioning systems and procedures, operational and maintenance procedures, and audit and review systems.

It applies to those working in management or technical specialist roles. They generally perform complex, non-routine tasks involving strategic and planning activities and are responsible for establishing and maintaining operational systems and plans.

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

## Unit Sector

Coal mining

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare mine services and infrastructure systems	1.1 Obtain, interpret, clarify and confirm work requirements 1.2 Access, interpret and apply mine services and infrastructure documentation 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures according to site requirements 1.4 Identify requirements and purpose of mine services and infrastructure systems according to legislative requirements and the system of mining 1.5 Establish specifications for mine services and infrastructure systems

ELEMENT	PERFORMANCE CRITERIA
	<p>based on analysis of operating requirements</p> <p>1.6 Identify options from analysis of all relevant technical, operational and financial information</p> <p>1.7 Select preferred systems according to manufacturer specifications and legislative and site requirements</p> <p>1.8 Inspect site, assess potential locations for mine services and infrastructure, locate on mine plan and confirm location</p>
2. Select plant, equipment or services	<p>2.1 Conduct detailed scoping of operational requirement and develop key selection criteria according to operational and site requirements</p> <p>2.2 Establish specifications for required plant, equipment and services</p> <p>2.3 Select preferred plant, equipment and services according to manufacturer specifications and legislative and site requirements</p>
3. Establish installation and commissioning systems and procedures	<p>3.1 Establish a system to identify hazards and analyse and evaluate risks associated with the installation of plant, equipment and services</p> <p>3.2 Plan and prepare for integration of new and existing systems and procedures to achieve optimum performance</p> <p>3.3 Establish procedures for installing and commissioning plant, equipment and services according to site requirements</p> <p>3.4 Establish systems and procedures to satisfy identified training requirements</p>
4. Establish management systems for operation and maintenance of plant, equipment or services	<p>4.1 Establish operational procedures for plant, equipment and services according to manufacturer specifications and legislative and site requirements</p> <p>4.2 Establish maintenance procedures for plant, equipment and services according to manufacturer specifications and legislative and site requirements</p> <p>4.3 Establish procedures for reviewing and modifying work processes according to legislative and site requirements</p> <p>4.4 Establish the maintenance of plant, equipment and services used for emergency response and evacuation according to manufacturer specifications and legislative and site requirements</p> <p>4.5 Establish system for recording and reporting of plant, equipment and services information according to site requirements</p>
5. Plan and prepare to implement mine services and infrastructure	<p>5.1 Identify and interpret the legislative and site implementation requirements</p> <p>5.2 Identify, clarify and communicate roles and responsibilities to all personnel according to mine services and infrastructure requirements</p> <p>5.3 Identify, forecast, obtain and allocate/schedule resources required for mine services and infrastructure implementation</p> <p>5.4 Provide, review and implement recommendations for changes to implementation procedures as required</p>

ELEMENT	PERFORMANCE CRITERIA
6. Establish management systems to audit and review mine services and infrastructure systems	6.1 Establish procedures to audit and review equipment compliance according to legislative and site requirements 6.2 Identify and assess future plant, equipment and services requirements into the planning processes 6.3 Establish procedures to audit and review the currency and compliance of operation and maintenance systems relating to plant, equipment and services 6.4 Establish procedures to audit the training programs for currency and relevance 6.5 Establish procedures for incorporating feedback into the audit/review system 6.6 Establish procedures for response to instances of non-compliance or other discrepancies/deficiencies revealed by audit

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

SKILL	DESCRIPTION
Numeracy	<ul style="list-style-type: none"> <li>Calculates resourcing requirements</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Conveys information and requirements clearly and listens actively</li> </ul>
Reading	<ul style="list-style-type: none"> <li>Identifies and interprets relevant information from workplace procedures, documentation and legislation</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Prepares specific information that complies with a range of requirements, using sector-specific vocabulary, grammatical structures and conventions</li> </ul>

## Unit Mapping Information

Supersedes and is equivalent to RIIRAI604D Establish and maintain mine services and infrastructure systems.

## Links

Companion Volume Implementation Guide is found on VETNet -

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

