



**Australian Government**

# **RIIPBE311D Conduct magnetic separation**

**Release: 2**

## RIIPBE311D Conduct magnetic separation

### Modification History

Release	Comment
1	This unit replaces RIIPBE311B Conduct magnetic separation.
2	Editorial corrections. 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 conduct magnetic separation in Metalliferous and Coal mining.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

### Unit Sector

Coal mining

Metalliferous mining

### Elements and Performance Criteria

1. Plan and prepare for magnetic separation	1.1 Access, interpret and apply magnetic separation documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret clarify and confirm work requirements 1.3 Coordinate and communicate with other personnel using approved communication methods 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Select appropriate type of auxiliary equipment for work activities 1.6 Perform equipment pre-start checks to ensure equipment is
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	<p>ready for operation</p> <p>1.7 Identify and address potential risks, hazards and environmental issues, and implement control measures</p> <p>1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency</p> <p>1.9 Use approved dust suppression and extraction methods</p> <p>1.10 Ensure area is well ventilated</p>
2. Start-up equipment in sequence	<p>2.1 Carry out start-up procedures and complete start-up checks according to plant configurations and system requirements</p> <p>2.2 Confirm plant is operational</p>
3. Operate and monitor equipment	<p>3.1 Read and interpret data from equipment indicators to determine separation efficiency</p> <p>3.2 Continuously inspect and monitor plant and identify defects and potential problems</p> <p>3.3 Assess mineral content of ore according to separation parameters</p> <p>3.4 Make appropriate adjustments to separation process</p> <p>3.5 Adjust equipment to agreed parameters</p> <p>3.6 Control feed to separation equipment</p> <p>3.7 Carry out operator level maintenance to maintain condition of equipment</p> <p>3.8 Complete all required documentation concisely and on time</p> <p>3.9 Pass on end of shift information to oncoming shift</p>
4. Shutdown in sequence and/or isolate equipment	<p>4.1 Shutdown and/or isolate equipment based on process and safety requirements</p> <p>4.2 Perform post-shutdown and/or isolation checks</p> <p>4.3 Restore plant to service</p>
5. Conduct housekeeping activities	<p>5.1 Clear work area and dispose of or recycle materials</p> <p>5.2 Clean and maintain condition of equipment, ensure suitability for use, and address/report issues</p> <p>5.3 Process records</p>

## 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

RIIPBE311B Conduct magnetic separation

## Links

Companion Volume implementation guides are found in VETNet -

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