



**Australian Government**

# **RIPRE204D Sinter materials**

**Release: 2**

## RIIPRE204D Sinter materials

### Modification History

Release	Comment
1	This unit replaces RIIPRE204A Sinter materials
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 apply sinter materials in Metalliferous mining.

This unit is appropriate for those working in supervisory 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

Metalliferous mining

### Elements and Performance Criteria

1. Prepare materials for feeding into sinter strand	1.1 Access, interpret and apply documentation and procedures to sinter materials and ensure the work activity is compliant 1.2 Add (reagents) to meet production targets and specifications 1.3 Monitor and control moisture content of materials 1.4 Monitor and control material feed rate 1.5 Identify and remove feedstock material before processing begins
2. Sinter materials	2.1 Monitor and adjust correct suction rate throughout bed to ensure sintering is complete 2.2 Identify and separate materials not meeting material size to raw material mix or other specified location

	<p>2.3 Monitor and adjust temperature to maintain uniform distribution across the bed</p> <p>2.4 Screen hot sinter where applicable</p> <p>2.5 Check and confirm strand discharge chutes are working</p> <p>2.6 Confirm roll feeder is clear of debris and build-up</p> <p>2.7 Check and confirm condition of pallet seal and wind box to prevent leakage</p> <p>2.8 Check and confirm fire bars and spade pins are intact to minimise fall through of material</p> <p>2.9 Deposit blend across full width of strand</p> <p>2.10 Operate at full bed depth and constant waste gas temperature</p>
3. Cool and screen sinter and fines	<p>3.1 Receive and assess material size according to hearth layer requirements</p> <p>3.2 Maintain hopper levels ensuring contract feed to screening station</p> <p>3.3 Crush oversize material from scalping screens</p> <p>3.4 Monitor and cool sinter to the required temperature</p> <p>3.5 Monitor cooler operations to maintain required temperature, minimise air leakage, and meet cooling rate requirements</p> <p>3.6 Monitor and maintain appropriate depth of sinter on cooling pallets</p>
4. Operate environmental controls	<p>4.1 Ensure environmental systems are operating correctly</p> <p>4.2 Check wastes and emission collection meets operational compliance</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

RIIPRE204A Sinter materials

## Links

Companion Volume implementation guides are found in VETNet -

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