



**Australian Government**

# **RIIPSM307D Control molten metal in holding furnace/vessel**

**Release: 2**

## RIIPSM307D Control molten metal in holding furnace/vessel

### Modification History

Release	Comment
1	This unit replaces RIIPSM307A Control molten metal in holding furnace/vessel
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 control molten metal in a holding furnace/vessel in Metalliferous 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

Metalliferous mining

### Elements and Performance Criteria

1. Prepare to control molten metal in holding furnace/vessel	1.1 Access, interpret and apply smelting documentation and ensure the work activity is compliant 1.2 Establish and maintain communication with other personnel 1.3 Select personal protective equipment for the work activity 1.4 Identify, address and report potential risks, hazards and environmental issues and implement control measures 1.5 Follow emergency procedures 1.6 Check and test remote control and monitoring systems 1.7 Plan and put work area ventilation in place
2. Operate and monitor holding	2.1 Carry out plant and equipment start-up checks and procedures

furnace operations	<p>2.2 Monitor and receive matte and/or slag flow from furnace</p> <p>2.3 Control furnace rotation/tilting within recommended rate and angle parameters to efficiently separate matte and slag</p> <p>2.4 Control main and secondary burner operation to hold constant, recommended matte and slag temperature</p> <p>2.5 Carry out holding furnace drive equipment fault finding</p> <p>2.6 Ensure regular monitoring of holding furnace operations during the shift, record and rectify identified faults</p> <p>2.7 Plan and organise matte supply to converter with other personnel and adjust tonnage</p> <p>2.8 Maintain cleanliness of spouts to allow consistent, continuous flow of molten metal</p>
3. Discharge matte and slag to matte and slag pots	<p>3.1 Ensure pot area is clear of personnel and machinery before pouring commences</p> <p>3.2 Position pot correctly to avoid splash, spillage or damage</p> <p>3.3 Rotate vessel/pot at correct angle to ensure an even flow of matte and slag</p> <p>3.4 Assess matte and slag levels and pour slag and dispose of matte ensuring that pot is not overfilled</p> <p>3.5 Collect and measure samples to ensure the slag and matte quantity is in an acceptable range</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

RIIPSM307A Control molten metal in holding furnace/vessel

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>