



**Australian Government**

# **RIIPSM201D Tap furnaces**

**Release: 2**

## RIIPSM201D Tap furnaces

### Modification History

Release	Comment
1	This unit replaces RIIPSM201A Tap furnaces
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 tap furnaces 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. Plan and prepare for furnace tapping	<p>1.1 Access, interpret and apply tap furnaces documentation and ensure the work activity is compliant</p> <p>1.2 Obtain and clarify/confirm verbal and written work instructions before proceeding</p> <p>1.3 Establish and maintain communication with other personnel using approved communication methods</p> <p>1.4 Select and wear personal protective equipment appropriate for work activities</p> <p>1.5 Identify, address and report potential risks, hazards and environmental issues and implement control measures</p> <p>1.6 Obtain and interpret emergency procedures, and be prepared for an emergency</p>
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	<p>1.7 Use approved dust suppression and extraction methods</p> <p>1.8 Ensure adequate ventilation to work area before commencing the work activity Select, and check for faults, tools and equipment for work activities</p> <p>1.9 Set up equipment for tapping</p> <p>1.10 Position holding vessels/ladles to receive molten metal and slag</p>
2. Tap molten metal from furnace	<p>2.1 Carry out plant and equipment start-up checks and procedures</p> <p>2.2 Drill, or make tap hole with oxy lance, and establish molten metal flow</p> <p>2.3 Ignite burners and correctly apply to ensure molten metal does not solidify</p> <p>2.4 Identify and control interference with molten metal flow</p> <p>2.5 Ensure quality and production targets</p> <p>2.6 Collect samples at appropriate bath heights for metallurgical testing</p>
3. Complete tapping process	<p>3.1 Insert and secure tap-hole seal to stop molten metal flow</p> <p>3.2 Clean and stow all tools and equipment in readiness for next tapping operation</p> <p>3.3 Complete reports and written records</p>
4. Maintain tapping equipment	<p>4.1 Obtain and/ manufacture tap-hole seals</p> <p>4.2 Replace temperature monitoring equipment</p> <p>4.3 Remove and install tapping blocks</p> <p>4.4 Provide support for maintenance personnel</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

RIIPSM201A Tap furnaces

## Links

Companion Volume implementation guides are found in VETNet -

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