



**Australian Government**

# **RIIMCU312 Conduct polymeric chemical operations in underground coal mining**

**Release: 1**

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## Modification History

| Release   | Comments                                                                                                 |
|-----------|----------------------------------------------------------------------------------------------------------|
| Release 1 | This version first released with RII Resources and Infrastructure Industry Training Package Version 7.0. |

## Application

This unit describes the skills and knowledge required to conduct polymeric chemical operations in underground coal mining. It includes handling, applying and monitoring polymeric chemicals and conducting maintenance activities to support operations.

The unit applies to those working in operational roles. They generally work under minimal supervision to undertake a broad range of tasks in varied work contexts, using some discretion and judgement in selecting equipment, services or contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

## Unit Sector

Coal mining (underground)

## 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 to conduct polymeric chemical operations | 1.1 Obtain, interpret, clarify and confirm work requirements<br>1.2 Access, interpret and apply documentation required for polymeric chemical operations in underground coal mining and confirm work activity is compliant<br>1.3 Select and wear personal protective equipment according to site requirements<br>1.4 Select equipment and tools required for work activity and check for faults<br>1.5 Identify potential risks, hazards and environmental issues, |

| ELEMENT                                                       | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                               | implement control measures within scope of own role, and escalate where required<br>1.6 Obtain and interpret emergency procedures and identify steps required to respond to emergencies<br>1.7 Carry out pre-start checks according to site requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2. Conduct and monitor polymeric chemical operations          | 2.1 Access and select polymeric chemical according to job and site requirements<br>2.2 Carry out equipment start-up procedures according to manufacturer specifications and site requirements<br>2.3 Conduct polymeric chemical operations according to manufacturer specifications and job and site requirements<br>2.4 Coordinate work activities with others within scope of own role<br>2.5 Monitor equipment performance using indicators according to manufacturer specifications and site requirements<br>2.6 Monitor pressure and flow of material according to job and site requirements<br>2.7 Monitor hazards and risks within scope of own role, confirm safe operation of plant and equipment, and escalate where required<br>2.8 Complete work plan according to job and site requirements<br>2.9 Carry out equipment shutdown and isolation procedures according to manufacturer specifications and site requirements |
| 3. Carry out operator maintenance and housekeeping activities | 3.1 Conduct inspection and fault finding according to manufacturer specifications and site requirements<br>3.2 Carry out routine operational servicing tasks according to manufacturer specifications and site requirements<br>3.3 Clean work area and dispose of materials according to site requirements<br>3.4 Complete records and documentation according to site requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 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 |
|-------|-------------|
|-------|-------------|

| SKILL              | DESCRIPTION                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Numeracy           | <ul style="list-style-type: none"><li>Calculates basic measurements including pressures and flow rates</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 specific information from workplace documentation</li></ul>                            |
| Self-management    | <ul style="list-style-type: none"><li>Monitors and minimises own exposure to worksite risks and hazards during activities</li></ul>                    |
| Writing            | <ul style="list-style-type: none"><li>Completes maintenance records using sector-specific vocabulary, grammatical structures and conventions</li></ul> |

## Unit Mapping Information

No equivalent unit. New unit.

## Links

Companion Volume implementation guides is found on VETNet -

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