



Australian Government

RIIMCU313 Mix and pump polymeric chemicals 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 mix and pump polymeric chemicals in underground coal mining. It includes transferring and storing polymeric chemicals and monitoring pressure and flow of material.

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. Prepare and plan to mix and pump polymeric chemicals	1.1 Obtain, interpret, confirm and clarify work instructions 1.2 Access, interpret and apply documentation required to mix and pump polymeric chemicals in underground coal mining and confirm work activity is compliant 1.3 Select and wear personal protective equipment according to site requirements 1.4 Select equipment and tools required for work activity and check for faults 1.5 Identify potential risks, hazards and environmental issues,

ELEMENT	PERFORMANCE CRITERIA
	implement control measures within scope of own role, and escalate where required 1.6 Obtain and interpret emergency procedures and identify steps required to respond to emergencies 1.7 Confirm adequate ventilation according to site requirements 1.8 Carry out pre-start checks according to site requirements
2. Transfer and store polymeric chemicals	2.1 Coordinate transfer and storage activities with others according to job requirements and within scope of own role 2.2 Transfer polymeric chemicals to pumping location according to site requirements 2.3 Store polymeric chemicals at pumping location according to site requirements 2.4 Confirm required quantities of polymeric chemicals are maintained
3. Prepare pump location	3.1 Coordinate work activities with others according to job requirements and within scope of own role 3.2 Confirm operation zone is designated and marked according to job requirements and site requirements 3.3 Interpret and apply ventilation requirements 3.4 Interpret and apply communication requirements
4. Mix, pump and monitor polymeric chemicals	4.1 Carry out start-up procedures according to manufacturer specifications and site requirements 4.2 Operate equipment according to manufacturer specifications and job requirements 4.3 Monitor equipment performance using indicators according to manufacturer specifications and site requirements 4.4 Coordinate mixing, pumping and monitoring activities with application team at application face according to job requirements and within scope of own role 4.5 Monitor pressure and flow of material according to job and site requirements 4.6 Complete work plan according to job and site requirements 4.7 Carry out shut down procedures according to manufacturer specifications and site requirements
5. Carry out operator maintenance	5.1 Conduct inspection and fault finding according to manufacturer specifications and site requirements 5.2 Conduct routine operational servicing tasks according to manufacturer specifications and site requirements 5.3 Clean, check, perform maintenance on and store machinery, tools and equipment according to manufacturer specifications

ELEMENT	PERFORMANCE CRITERIA
	and site requirements
6. Conduct housekeeping activities	6.1 Clear work area and dispose of materials according to site requirements 6.2 Complete records and reports 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
Numeracy	Calculates basic measurements including pressure and flow rates
Oral communication	Conveys information and requirements clearly and listens actively
Reading	Identifies and interprets specific information from workplace documentation
Self-management	Monitors and minimises own exposure to worksite risks and hazards during work activities
Writing	Completes maintenance records using sector-specific vocabulary, grammatical structures and conventions

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>