



Australian Government

RIIMCU314 Transport and store 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 transport and store polymeric chemicals in underground coal mining, including interpreting chemical labels, storing hazardous materials and recording storage details.

The unit applies to those working in operational roles who are involved in loading, unloading and transporting polymeric chemicals both on the surface and to and from application sites in underground coal mines. 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 transport and store polymeric chemicals	1.1 Obtain, interpret, confirm and clarify work instructions 1.2 Access, interpret and apply documentation required to transport and store polymeric chemicals in underground coal mining and confirm work activity is compliant 1.3 Confirm intended polymeric chemical transport procedure meets legislative and site requirements 1.4 Confirm first aid kit is accessible for transport of polymeric

ELEMENT	PERFORMANCE CRITERIA
	chemicals 1.5 Identify potential risks, hazards and environmental issues, 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
2. Transport polymeric chemicals	2.1 Coordinate transport activities with others and within scope of own role 2.2 Select and wear personal protective equipment required for transport and handling of polymeric chemicals 2.3 Select and transport polymeric chemicals according to legislative and job and site requirements, including hazardous substances procedures and product safety data sheets (SDS) 2.4 Interpret and apply chemical label and SDS requirements, and carry out emergency response procedures for spills and accidents where required 2.5 Report transport incidents where required 2.6 Access and apply underground transport procedures according to site requirements
3. Store and dispose of polymeric chemicals in the workplace	3.1 Access and apply site requirements for polymeric chemicals storage 3.2 Select and wear personal protective equipment required for storage of polymeric chemicals 3.3 Implement storage method according to chemical label, SDS and work health and safety standards 3.4 Store chemicals in original containers with labels intact 3.5 Maintain storage area according to legislative and site requirements 3.6 Dispose of unwanted and out-of-date polymeric chemicals according to legislative and site requirements 3.7 Implement disposal procedures for used polymeric chemical storage containers according to label, legislative, regulatory and site requirements
4. Record storage details	4.1 Maintain polymeric chemical storage inventory and records according to legislative and site requirements 4.2 Report storage incidents according to legislative and 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
Oral communication	Conveys information and requirements clearly and listens actively
Reading	Identifies and interprets information from labels, legislation and workplace documentation
Self-management	Monitors and minimises own exposure to worksite risks and hazards during work activities
Writing	Prepares records and reports that comply with requirements

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>

Assessment Requirements for RIIMCU314 Transport and store polymeric chemicals in underground coal mining

Modification History

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- transport and store polymeric chemicals in underground coal mining on at least two occasions, using at least one of the following injection resins:
 - phenolic
 - polyurethane (PUR)
 - urea silicate.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures, and confirm work activity is compliant
- implement the requirements, techniques and procedures to transport and store polymeric chemicals in underground coal mining, including:
 - applying emergency procedures for chemical spillage
 - analysing and applying hazard and risk controls
 - identifying, addressing and reporting potential hazards, risks and environmental issues
 - implementing requirements for labelling, transporting, using and storing hazardous materials
- work with others to transport and store polymeric chemicals in a way that meets required outcomes, including:
 - communicating with others to receive and clarify work instruction
 - completing records and reporting systems, including transport and storage records
 - communicating and coordinating work activity and exclusion zones.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- legislative requirements relating to transporting and storing polymeric chemicals in underground coal mining
- policies, procedures and documentation required to transport and store polymeric chemicals in underground coal mining, including those related to:
 - disposal requirements for excess, unwanted and out-of-date polymeric chemicals and used polymeric chemical containers
 - first aid requirements for exposure to hazardous material
 - hazardous spill responses, including clean up
 - hazardous materials storage
 - emergency information requirements for vehicles transporting polymeric chemicals
 - environmental protection
 - operational and exclusion zones
 - safety and health documentation relating to polymeric chemical exposure
 - safety data sheets (SDS) requirements
 - statutory compliance
 - signage for storage of polymeric chemicals
 - site requirements for handling, transporting and storage of polymeric chemicals
 - site health monitoring requirements
 - site environmental and monitoring requirements
 - work health and safety
- techniques for transporting and storing polymeric chemicals, including those related to:
 - interpreting and applying chemical label and SDS requirements
- types, characteristics, technical capability and limitations of plant and equipment required to transport and store polymeric chemicals in underground coal mining
- techniques for identifying, preventing and responding to relevant hazards and emergencies, including those relating to:
 - positioning of equipment and work locations
 - ventilation quantity and arrangements to remove airborne contaminants
 - uncontrolled release of chemicals including spills, ruptured hoses, ruptured containers
 - unplanned or undesired outcomes including generation of excessive heat or ignition of products
- techniques for housekeeping and reporting
- techniques for coordinating and communicating job activities with others.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to transport and store polymeric chemicals
- be conducted in a safe environment; and,

- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

***While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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