



Australian Government

Department of Education, Employment and Workplace Relations

RIIERR403A Lead rescue team

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers leading of rescue teams in underground metalliferous mining operations. It includes: preparing for rescue operation; briefing team members; reporting to and liaising with Incident Control; leading and monitoring the rescue team; and completing team operations.

Application of the Unit

This unit is appropriate for those working in a supervisory or technical specialist roles, within:

- Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for rescue operation	1.1. Access, interpret and apply compliance documentation relevant to the underground metalliferous mine rescue 1.2. Obtain and verify information about the rescue operation 1.3. Obtain mine plan and determine route of travel and mark on mine plan 1.4. Develop, or agree with Incident Control , the strategy search patterns and contingency plans for the rescue operation 1.5. Implement communication system and equipment 1.6. Assess team members' competence to meet the rescue situation and task requirements and constitute team 1.7. Allocate team roles to best utilise individual team member competence 1.8. Identify, test and allocate rescue and safety equipment and materials to team members 1.9. Determine and ensure availability of any ancillary equipment required with Incident Control and/or mining personnel
2. Brief team members	2.1. Provide information to team members on their roles, tasks and responsibilities to allow effective, safe rescue operation 2.2. Ascertain team members understanding of their roles, tasks and responsibilities
3. Report to and liaise with Incident Control	3.1. Observe reporting formats and protocols 3.2. Confirm rescue strategies with Incident Control 3.3. Receive and follow operational advice from Incident Control 3.4. Relay information to Incident Control which can affect team operations or safety to team members 3.5. Complete records required in accordance with legislative requirements or site requirements
4. Lead and monitor rescue team	4.1. Carry out recommended procedures for entering hazardous or irrespirable

	<p><i>atmospheres</i> and situations</p> <p>4.2. Continually assess environment, tasks and hazards associated with rescue team's safety, and apply judgements to ensure tasks and procedures are carried out within rescue team's ability</p> <p>4.3. Continuously assess hazards and implement controls to minimise risk</p> <p>4.4. Monitor team member's <i>physical</i> and <i>emotional</i> condition and take appropriate action to address any problems</p> <p>4.5. Provide information to team members about changes which can affect their operations or safety</p> <p>4.6. Ensure team adheres to team rescue procedures according to standard rescue guidelines</p> <p>4.7. Implement coaching processes within <i>the team and</i> identify further assistance</p>
5. Complete team operation	<p>5.1. Provide verbal report to Incident Control to advise of status of operation and significant variations to expected conditions</p> <p>5.2. Formally de-brief team to obtain and collate incident and procedural information</p> <p>5.3. Provide comprehensive oral and written report on team's deployment and consequential outcomes to Incident Control</p> <p>5.4. <i>Report</i> on significant physical or emotional condition of team members</p> <p>5.5. Offer <i>team</i> members critical incident stress debriefing and counselling in an appropriate environment</p>

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the performance criteria in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to lead rescue teams:

- apply legislative, organisation and site requirements and procedures
- apply leadership skills
- work with teams
- assess a situation and make effective, safe decisions
- apply basic life support
- apply procedures to establish search patterns and mark routes
- apply risk assessments processes
- apply contingency measures with breathing apparatus in emergency situations
- select and use personal protection equipment
- operate in escape apparatus
- read and interpret mine plans and symbols
- take air measurement and ventilation readings
- take temperature and relative humidity measures
- interpret and use signals
- access, interpret and apply technical and safety information
- apply diagnostic/faultfinding techniques
- apply isolation procedures

Required knowledge

Specific knowledge is required to achieve the performance criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to lead rescue teams:

- principles of leadership
- counselling techniques
- rescue guidelines
- reporting and recording methods and protocols
- entrapment procedures
- mining methods and environment
- transport systems
- ignition sources
- gas testing and monitoring instruments - types, limitations, function and operation
- types of fire and fire control methods
- call-out procedures
- rescue team procedures and equipment

- standby / emergency procedures
- effects on people working in hot and humid atmospheres
- air measurement and ventilation systems
- atmospheric monitoring and ventilation systems
- types of breathing apparatus: their construction, operating principles and limitations
- factors affecting oxygen/air consumption
- techniques for resuscitation in irrespirable atmospheres
- fresh air base procedures and communications
- structure, role and responsibilities of Incident Control
- critical incident stress debriefing
- hazardous substances: their effects and controls
- extrication methods
- risk management procedures

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following:</p> <ul style="list-style-type: none"> • knowledge of the requirements, procedures and instructions for the leading of rescue teams in underground metalliferous mines • implementation of appropriate procedures and techniques for the safe, effective and efficient leading of rescue teams in underground metalliferous mines • working with others to plan, prepare and conduct underground metalliferous mining rescue procedures • provision of clear and timely instruction and supervision by the individual of those involved in underground metalliferous mining rescue • evidence of the consistent successful leadership of underground metalliferous mining rescue procedures
Context of and specific resources for assessment	<ul style="list-style-type: none"> • This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. • Customisation of assessment and delivery environment to sensitively accommodate

	<p>cultural diversity.</p> <ul style="list-style-type: none"> • Aboriginal people and other people from a non English speaking background may have second language issues. • Assessment of this competency requires typical resources normally used in the work environment. Selection and use of resources for particular worksites may differ due to site circumstances. • Where applicable, physical resources should include equipment modified for people with disabilities. • Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	<p>This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods:</p> <ul style="list-style-type: none"> • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • implementation of appropriate procedures and techniques for the safe, effective and efficient achievement of the required outcomes • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • working with others to plan, prepare and conduct underground metalliferous mining rescue procedures • provision of clear and timely instruction and supervision by the individual of those underground metalliferous mining rescue procedures
Guidance information for assessment	<p>Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.</p>

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	<ul style="list-style-type: none"> legislative, organisation and site requirements and procedures manufacturer's guidelines and specifications Australian standards code of practice Employment and workplace relations legislation Equal Employment Opportunity and Disability Discrimination legislation
Information may include:	<ul style="list-style-type: none"> arrivals departures team names suit/set identification numbers route of travel expected time of return
Incident Control:	<ul style="list-style-type: none"> has overall planning, approval and control of an incident
Communications may include:	<ul style="list-style-type: none"> reports 2-way radio telephone mobile phone hand signals runners light signals
Teams may comprise two or more members, depending on such factors as:	<ul style="list-style-type: none"> respiratory protection distance/communications
Team roles may include:	<ul style="list-style-type: none"> rescue team leader deputy rescue team leader rescue team member
Equipment is:	<ul style="list-style-type: none"> the equipment specified in the mine's rescue guidelines and protocols
Operational advice may include:	<ul style="list-style-type: none"> re-location evacuation

	<ul style="list-style-type: none">• notification to active team• notification to surface
Irrespirable atmosphere is considered as an atmosphere which is unsafe for a person to breathe as a result of either oxygen depletion or the presence of:	<ul style="list-style-type: none">• toxic fumes• gases• contaminants
Physical condition may be affected by:	<ul style="list-style-type: none">• heat exhaustion• dehydration• injuries from slipping / tripping / falls• respiratory problems• physical exhaustion• vomiting• workload
Emotional condition may be affected by:	<ul style="list-style-type: none">• panic• fright• stress• distress• claustrophobia
Reports may be:	<ul style="list-style-type: none">• written or oral

Unit Sector(s)

Emergency Response and Rescue

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.