



Australian Government

RIIERR305E Control underground fires

Release: 2

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Modification History

Release	Comments
1	This unit replaces RIIERR305D Control underground fires. Minor endorseable amendments have been made to Elements, Performance Criteria, Foundation Skills, Performance Evidence and Knowledge Evidence to better reflect current industry practices and clarify training outcomes.
2	Editorial corrections.

Application

This unit describes the skills and knowledge required to plan and prepare for underground fire-fighting activities and monitor, control and extinguish underground fires in the resources and infrastructure industries.

It applies to those who work in operational roles. They generally work in teams and have some responsibility for the outcomes of others.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

RIIERR303E Operate in a self-contained regenerative oxygen breathing apparatus

PUAFIR207 Operate breathing apparatus open circuit

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 control underground fires	1.1 Access, interpret and apply control of underground fires documentation and ensure the work activity is compliant 1.2 Identify and assess potential risks, hazards and environmental issues and implement control measures 1.3 Select and wear personal protective equipment

ELEMENT	PERFORMANCE CRITERIA
	<p>appropriate for work activity</p> <p>1.4 Interpret data and reports to determine cause and location of fire and record on the mine plan</p> <p>1.5 Assess type, size and spread of fire and determine risk level</p> <p>1.6 Identify and assess potential ignition sources for further fires, determine control measures, and record on the site plan</p> <p>1.7 Assess secondary risks and recommend actions for control</p>
2. Determine fire-fighting resources and procedures	<p>2.1 Assess fire-fighting personnel's exposure to fire and identify methods and equipment to control risks</p> <p>2.2 Determine personnel numbers, equipment and personal protective equipment requirements</p> <p>2.3 Determine fire-fighting strategy and procedures</p> <p>2.4 Assess fire control equipment and fire-fighting media capability and quantity, and decide on the appropriate course of action</p> <p>2.5 Communicate and assign activities to personnel</p> <p>2.6 Identify and apply ventilation monitoring and control measures</p> <p>2.7 Assess need for evacuation of personnel and take appropriate action</p> <p>2.8 Prepare action plan according to workplace procedures</p>
3. Control the fire	<p>3.1 Isolate and barricade fire area/zone to prevent entry of non-involved personnel</p> <p>3.2 Access, assemble and test equipment determined in the action plan</p> <p>3.3 Apply fire-fighting techniques and methods determined in the action plan</p> <p>3.4 Maintain communication with other fire-fighters and emergency control personnel on condition of fire and status of fire control operations</p> <p>3.5 Monitor fire continually and put controls in place to ensure the safety of personnel in the vicinity of the fire</p> <p>3.6 Reassess and apply ventilation control measures continually</p> <p>3.7 Monitor fire-fighting activities continually to determine ability to continue to handle situation and</p>

ELEMENT	PERFORMANCE CRITERIA
	<p>take action</p> <p>3.8 Minimise damage and disruption to site working during the fire control operation</p> <p>3.9 Assess fire intensity and magnitude, withdraw from fire zone and relocate fire control equipment to a safe place if fire is uncontrollable</p> <p>3.10 Bring fire safely under control and extinguish according to situational requirements</p> <p>3.11 Monitor fire site and take actions to prevent possible re-ignition</p> <p>3.12 Report to emergency control personnel</p> <p>3.13 Monitor for structural and ground support integrity</p>
4. Restore and refurbish fire equipment to operational condition	<p>3.1 Inspect equipment for any damage</p> <p>3.2 Repair, replenish or replace defective/depleted equipment</p> <p>3.3 Tag, record and quarantine unusable equipment</p> <p>3.4 Return fire control system and equipment to operational readiness</p> <p>3.5 Process required written records and reports according to workplace policies and procedures</p>

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
Problem solving	<ul style="list-style-type: none"> Applies problem solving processes to identify risks, evaluate options and determine solutions
Writing	<ul style="list-style-type: none"> Prepares specific information that complies with a range of regulatory requirements, using sector-specific terminology
Oral communication	<ul style="list-style-type: none"> Conveys information and requirements clearly, and listens carefully
Reading	<ul style="list-style-type: none"> Identifies and interprets relevant information from workplace procedures, documentation, legislation and regulations

Unit Mapping Information

Supersedes and is equivalent to RIIERR305D Control underground fires.

Links

Companion Volume implementation guides are found in VETNet -

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