PROMR24
Assist in mine fire fighting

Overview

This standard is about being able to undertake fire-fighting operations and is applicable to rescue personnel and/or staff from the mine forming part of an emergency or rescue team. It includes fire fighting, and carrying out procedures in the aftermath of the fire

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Performance criteria	Fire-fighting in a mine
You must be able to:	P1 confirm to responsible person at fresh air base that you understand your assigned task/s P2 check you are suitably equipped (e.g. PPE, RPE, mine plan, temperature / gauge card, environmental monitoring equipment, appropriate fire fighting equipment) P3 proceed to designated fire fighting point, if safe to do so P4 locate and position fire fighting equipment P5 operate fire fighting equipment using correct techniques according to manufacturers' instructions and organisational procedures P6 request and use additional / alternative equipment / fire fighting media as required P7 continually observe fire and surrounding areas reporting/responding to hazards and/or changes in the situation/conditions P8 move position as directed or in response to advance/suppression of fire P9 should situation become excessively hazardous, retreat to a safer position P10 establish and maintain effective communications
	Post fire operations
You must be able to:	P11 take appropriate steps to prevent the fire from re-igniting. P12 de-pressurise fire hoses in accordance with company procedures. P13 carry out after use care of hoses (drained, checked for damage, cleaned, rolled up, stored). P14 segregate damaged/used fire-fighting equipment to facilitate removal from mine. P15 establish/maintain an exclusion zone around fire area pending further investigation by interested parties. P16 complete reports/records according to organisational requirements.

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Knowledge and understanding

You need to know and understand:

K1 types of hoses; their purpose, advantages and limitations.
K2 items of equipment associated with use of hoses (e.g. reels, branch pipe, nozzle, dividing and collecting breech, standpipe, water curtain, foam making branch).
K3 fire-fighting techniques using hoses and ancillary equipment (e.g. adding/removing hoses, use of dividing breech, collecting breech, standpipe, foam making branch, water curtain).
K4 hazards and risks associated with using fire hoses / pressurised water lines, and control measures.
K5 after use servicing/maintenance/storage of equipment.
K6 the triangle of combustion and its relevance to fire fighting.
K7 the three principal ways in which a fire may spread.
K8 how fire is extinguished.
K9 effects of underground fires (damage, smoke, toxic gases, heat and humidity, ventilation constriction and buoyancy effect).
K10 the classification of fires as per current standards.
K11 types of portable fire extinguishers, purpose, advantages, limitations.
K12 colour coding of portable fire extinguishers as per current standards.
K13 types/operational use of foam.
K14 the use of inert gasses to extinguish fires
K15 manual handling techniques to be adopted throughout fire fighting operations.
K16 effective methods of communication between team members/other teams.
K17 types of fire that may be encountered in a mine, (including spontaneous combustion).
K18 countermeasures against the fire hazard (water supply, pipe range, hydrants, fire points, fire stations, portable fire extinguishers).
K19 high risk fire zones associated with mining operations (e.g. belt conveyors; transfer points, diesel locomotives, welding apparatus, booster fan houses, and free steered vehicles).
K20 how to interpret relevant fire fighting details from appropriate mine plans.
K21 organisational reporting procedures.
K22 the correct use of monitoring equipment to protect against effects of fire.
K23 the use of breathing apparatus, and its limitations

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