PROMT16
Identify and address mine engineering health and safety hazards and risks

Overview

This unit is about the identification of hazards and risks for health and safety in mines, particularly those associated with mine technical activities. It involves continual awareness of potential hazards, identification of specific hazards, how hazards and risks arise from engineering activities, and the steps to take to eliminate, reduce and control those risks.

This unit is a two element unit

1 Identify mine health and safety hazards
2 Carry out engineering activity with minimal risk

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Performance criteria		Identify mine health and safety hazards
You must be able to:	P1	identify hazards in your area of work
	P2	identify hazards and risks arising from your work
	P3	identify people who are at risk from hazards
	P4	assess the level of risk arising from the hazard
	P5	seek advice from managers or specialists in risk assessment when appropriate
	P6	report hazards immediately to the responsible person(s)
	P7	deal with hazards which constitute a low risk and are within your limits of responsibility in accordance with organisational and operational procedures
	P8	give suggestions to control or reduce risks to health and safety to the responsible person
		Carry out engineering activity with minimal risk
You must be able to:	P9	check tools and materials are suitable for the task
	P10	check and ensure plant/machinery/equipment is made safe for the task
	P11	carry out task according to specified procedure/s
	P12	report problems and conditions outside the limits of your responsibility to the appropriate person/s
	P13	on completion ensure plant/machinery/equipment is in an appropriate safe condition
	P14	report completion of task according to organisational procedures

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Knowledge and understanding

You need to know and understand:

K1	definitions of hazard, risk, accident, danger
K2	workplace monitoring and hazard identification methods, e.g. formal and informal health and safety inspections, surveys and audits
K3	basic procedures for carrying out health and safety risk assessment
K4	organisational arrangements for identification and reporting of hazards and risks
K5	the benefits of participation of persons at work
K6	basic knowledge of the main types of occupational health risk – chemical (toxic, corrosive, dermatitic), physical (noise, dust, temperature, light, vibration, repetitive strain) and ergonomic
K7	basic knowledge of the main hazards associated with mining (e.gs. noxious gasses/unsafe atmosphere, falls of ground, inrush, outburst, plant and machinery including transporting/winding systems, slips/trips/falls, fire, explosions, surface hazards including tips)
K8	hazards and risks arising from plant/machinery incorrectly used/installed/maintained
K9	industrial Standards relevant to using electricity in mines
K10	approved codes of practice and guidance for working safely with electricity in mines
K11	how to obtain and use information on plant/machinery/equipment (e.gs. manufacturers manuals, engineering drawings, specifications)
K12	how the incorporation of commonly used protective devices and correct plant maintenance contribute to reduction of risks
K13	safe working practices for yourself to include all systems, procedures, equipment and materials in use
K14	your scope, responsibility and limitations for dealing with hazards and risks

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