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Understanding health monitoring

January 2018

NSW mining and extractives industry

Introduction to health monitoring

As outlined in <u>Safe Work Australia</u>: <u>Health monitoring for exposure to hazardous chemicals</u>, health monitoring means monitoring a worker to identify changes in their health status due to exposure to certain substances. Health monitoring must be supervised by a registered medical practitioner with experience in health monitoring. There are different health monitoring techniques used to assess exposure and their health impacts, including:

- → worker interviews
- → medical examination
- → biological effect monitoring.

Legislative obligations

A person conducting a business or undertaking (PCBU) has an obligation to provide health monitoring for a worker if:

- a worker is exposed to hazardous chemicals referred to in Schedule 14, table 14.1 of the Work
 Health and Safety Regulation 2017 (WHS Regs 2017) and there is a significant risk to their
 health or
- 2. there is a significant risk that a worker is exposed or will be exposed to a hazardous chemical not referred to in Schedule 14 and there is either a:
 - → valid technique to detect the health effects or
 - → valid way of determining biological exposure and it is uncertain whether the exposure has exceeded the biological exposure standard.

Crystalline silica

Crystalline silica is an example of a chemical listed in Schedule 14 that may be present in mining and extractive work places. Refer to www.legislation.nsw.gov.au/~/view/regulation/2017/404/sch14 for the full list of hazardous chemicals where health monitoring is required.





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Coal dust

Coal is an example of a chemical not included in Schedule 14 where health monitoring is required as there is a significant risk to worker health and x-ray and spirometry are valid techniques to detect the effect of exposure.

Asbestos

Health monitoring is also required for exposure to asbestos if, as a result of asbestos-related work, a worker is at risk of exposure when carrying out that work.

Health monitoring requirements for common hazardous chemicals in mining

Hazardous chemicals	Health monitoring requirements
Crystalline silica and coal dust	→ demographic, medical and occupational history
	→ records of personal exposure
	→ completion of standardised respiratory questionnaire
	→ standardised respiratory function tests, for example forced expiratory volume (FEV), forced vital capacity (FVC), and FEV/FVC
	→ chest x-ray full size PA (posterior anterior) view
Lead (inorganic)	→ demographic, medical and occupational history
	→ physical examination
	→ biological monitoring
Asbestos	→ demographic, medical and occupational history
	→ records of personal exposure
	→ physical examination

Note: These are the most common health hazards found in mines but depending on the type of operation, other health hazards may be present.





Fact sheet



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Reporting health monitoring results

A copy of health monitoring results must be provided to the worker. If a health impact has been detected a copy of this report must be provided to any other PCBUs who may have a duty and the regulator.

The following information must be included in the report:

- → Advice on test results that indicate the worker may have contracted a disease, injury or illness as a result of carrying out work with the chemical.
- → A recommendation that remedial measures be taken in relation to whether the worker can continue to carry out work with the hazardous chemical that triggered the requirement for health monitoring.
- → For lead risk work, test results that indicate the worker has reached a blood level at or above the relevant removal level.

The health monitoring, reports must be identified as a record in relation to that worker and must not include other information that is not connected to the health monitoring.



