



# MOSH TRANSPORT & MACHINERY TEAM

## Missing Persons Locator Systems | Day of Learning

Cholo Likhi | Nomvula Ngcobo | Ntsiky Phokwana

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**MINERALS COUNCIL**  
SOUTH AFRICA

# Contents

**1.**  
**MHSA**  
Chapter 16  
Amendments

**2.**  
Missing  
Person  
Locator  
Regulation  
16.7 Intent

**3.**  
Regulation  
16.7  
Application

**4.**  
System  
Integration  
Requirement

**5.**  
Generic  
requirement  
for the ideal  
system

# Legislative Authority

Chapter 16  
Amendments to the Regulations  
Relating to Rescue, First Aid  
and Emergency Preparedness  
and Response.

## Legal Obligation

This is not guidance – it is a legally enforceable obligation.

## Prescriptive Duties

Introduces specific, prescriptive employer duties relating to Regulation 16.7: Missing Person Locator System.

## Amendment

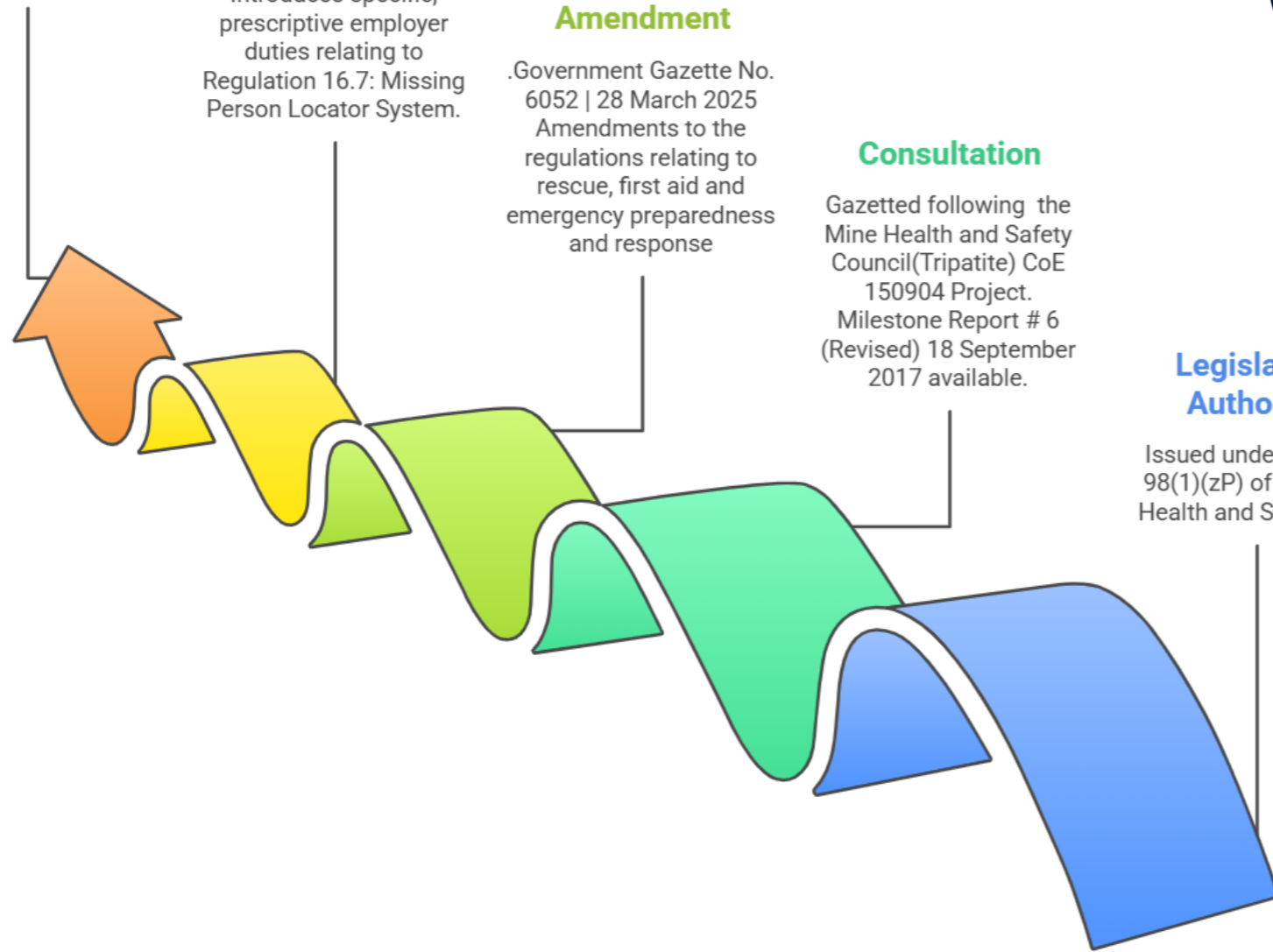
.Government Gazette No. 6052 | 28 March 2025  
Amendments to the regulations relating to rescue, first aid and emergency preparedness and response

## Consultation

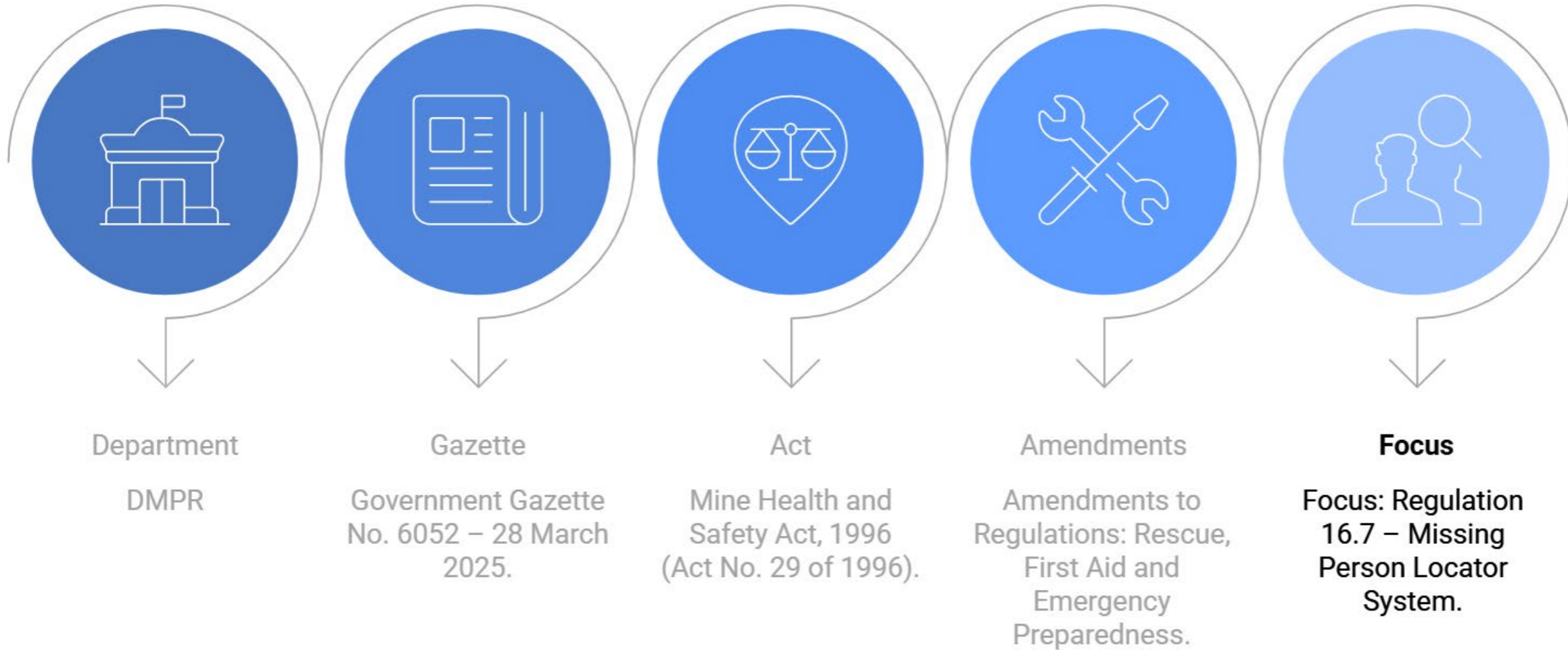
Gazetted following the Mine Health and Safety Council (Tripartite) CoE 150904 Project. Milestone Report # 6 (Revised) 18 September 2017 available.

## Legislative Authority

Issued under Section 98(1)(zP) of the Mine Health and Safety Act.



# Chapter 16 Amendments



# Regulatory Intent

## Why Regulation 16.7 Exists?

Enable rapid determination of last known location under abnormal and emergency conditions,

Improve survival and recovery outcomes when persons become lost or trapped.

Address historic industry incidents where rescue effectiveness was compromised by lack of location data.

Shift emergency response from search-dependent to information-enabled.

# Regulation 16.7 Application



## Underground Mines

Regulation 16.7 (1) applies to all underground mines. This is mandatory.

Intrinsically safe device.



## Surface Mines

Regulation 16.7 (2) applies to surface mines where Section 11 risk assessment identifies a significant risk of persons going missing.

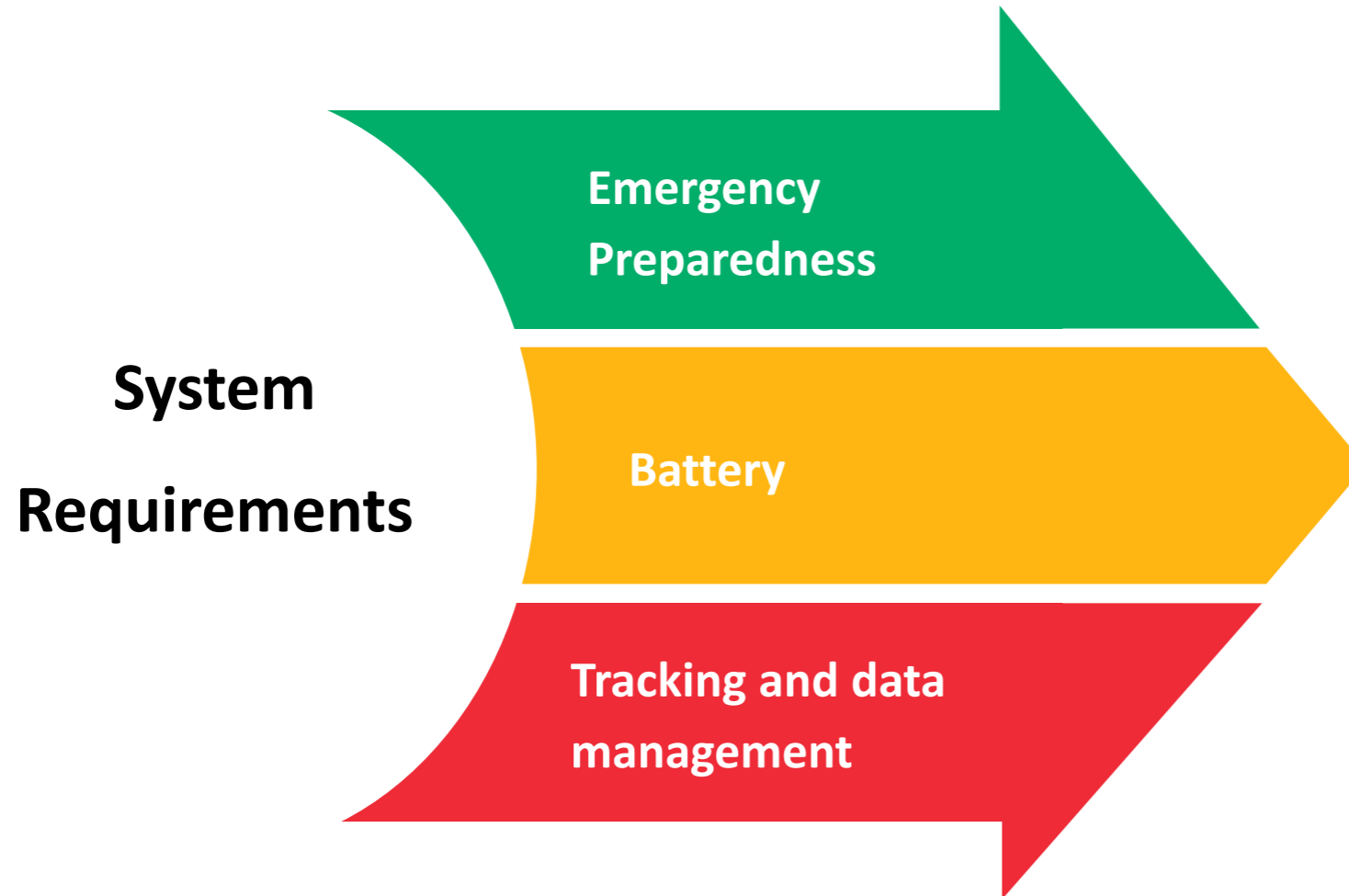


## Uncontrolled Flow

Regulation 16.7 (3) applies to operations exposed to uncontrolled material or fluid flow, including water ingress, rock falls, mud rushes, and slimes and tailings dam-related hazards.

*Last known location.*

# Regulation 16.7 System Integration Requirement

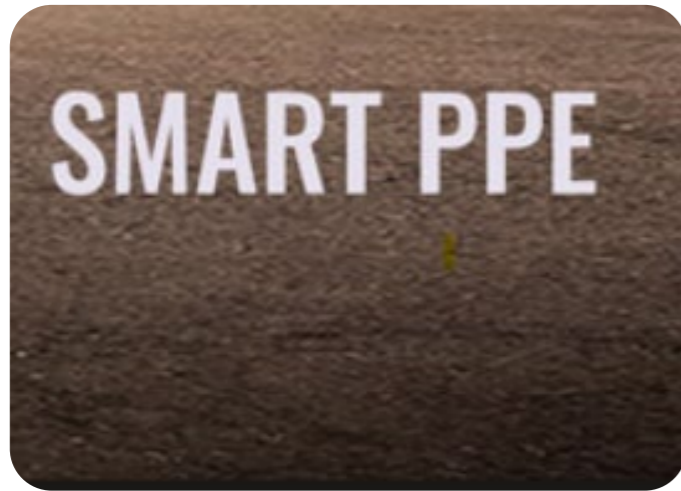


16.7 (4) The use of the missing persons locator device must form part of the mine's emergency preparedness and response strategy.

16.7 (5) The battery life of the missing persons locator device must be informed by the outcome of the mine risk assessment to enable the locating of the missing person during and after a working shift.

16.7 (6) The system providing the last known location of the missing person as contemplated in 16.7.(1), 16.7.(2) and 16.7.(3) must be equipped with a data logging facility

# Regulation 16.7 System Integrity and Lifecycle Management



6.7(7) All personnel required to make use of such missing persons locating systems are properly trained on the effective use thereof and that such a device must be always worn on the body.

Wearing compliance must be actively managed and enforced



16.7(7) All personnel required to make use of such missing persons locating systems are properly trained on the effective use thereof and that such a device must be always worn on the body.



6.7(8) a) inspection, repair and maintenance by suitably trained and qualified persons, b) calibration and testing of as per the manufacturers' specifications, c) testing to confirm functionality and keeping of the records of such tests.

# Generic requirement for the ideal system

- No health and safety risks are to be created by the system
- Satisfactory tripartite data policies
- Real-time tracking capability and last known location provision in the case of system damage or failure
- Fit-for-purpose and adjustable tracking resolution
- Ability to track all mine employees at any given stage
- Full coverage in active mine areas
- Mortality indication
- Integrate-able with existing infrastructure and mining method or layout
- Reliable and continuous primary and back-up power supply
- Reliable primary and back-up data capturing and transmission infrastructure
- Survivable static and dynamic system components
- Tracking blind-spot warning
- Integrate-able with secondary tracking equipment
- Ergonomically friendly
- Intuitive control room interface
- Zero impact on productivity
- Minimal user inputs and training
- Integrate-able or interoperable with other systems
- Signal transmission permissibility
- Longevity
- Ease of installation, extension and expansion
- Cost-effective system

*Ref: CoE 150904 Project Milestone Report # 6 (Revised) 18 September 2017*



# Thank you

T +27 11 498 7100

E [info@mineralscouncil.org.za](mailto:info@mineralscouncil.org.za)

W [www.mineralscouncil.org.za](http://www.mineralscouncil.org.za)

Rosebank Towers, 19 Bierman Ave, Rosebank, Johannesburg, 2196



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