



MHSC

Mine Health and Safety Council

Partnering for a Safer Future

Sponsor Presentation

2025 Mine Safe Conference

Zamaswazi Nkosi (Specialist - Mine Safety: Mine Health and Safety Council)

Every mine worker returning from work unharmed every day. Striving for zero harm in our lifetime.

Presentation Outline

Our Mandate - The Drive for Zero Harm

Who We Are
The Mine Health and Safety Council (MHSC) is a national public entity established under the Mine Health and Safety Act, Safety Act, Act No. 29 of 1996, as amended.

Tripartite Structure

State Employer Labour

Chaired by the Chief Inspector of Mines

Our Vision
"Zero Harm in our lifetime"
Zero harm to mine employees and other persons affected by mining activities

Our Purpose

- Advise the Minister of Mineral and Petroleum Resources on mine health and safety legislation
- Foster a culture of health and safety within the South African mining industry
- Drive continuous improvements in mine health and safety standards

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Persistent Health & Safety Challenges

While the industry has made encouraging progress, we continue to face persistent risks:

- Falls of ground**
Despite reduction efforts, this remains a significant cause of mining accidents
- Trackless Mobile Machinery accidents**
Vehicle-related incidents continue to pose significant safety risks
- Occupational diseases**
Long-term health impacts remain a challenge despite progress in prevention
- Emerging challenges**
Battery safety and psychosocial risks require new approaches and methodologies

These challenges require continued vigilance and innovation

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Key Achievements/Impact

Strengthened Regulations to Improve Mine Safety

- Promulgated **Trackless Mobile Machinery (TMM) Collision Prevention System (CPS)** requirements (Chapter 8), enhancing vehicle safety.
- Implemented **Missing Person Locator System** regulations for underground and high-risk surface mines (Chapter 16), improving emergency response.
- Research evidence directly informed regulatory updates to support advanced **technology adoption** across the industry.

2. High-Impact Guidelines & Standards Published

- New or updated guidelines on critical areas such as:
 - PPE for Women in Mining and Safety & Security for WIM**, addressing specific needs.
 - Comprehensive **Cyanide Management** protocols.
 - Improved standards for **Underground Rail-Sound Equipment**.
 - Effective **Medical Incapacity Management** procedures.
 - Revised **Fire Prevention** strategies and guidelines.
 - Focus on **Non-Communicable Diseases (NCDs)** & **Mental Health Disorders**.
 - Enhanced **Lamproom Management and Road & Rail Safety** measures.

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Key Achievements/Impact

3. Research Advancing H&S Practice

- Published essential **handbooks** covering safety, rock engineering, ergonomics, occupational health, and hygiene.
- Our research outputs are utilized nationally and internationally to significantly improve mining health and safety standards and best practices.

4. Support for Technology Modernisation

- Provided technical evidence supporting the adoption of innovative solutions like **Collision Prevention Systems** and **Missing Person Locator Technology**.
- Strengthened testing and evaluation infrastructure through **SIMIRAC**-supported research, fostering continuous technological advancement.

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Our Commitment to Safety

We are continually striving to integrate new knowledge and technology to enhance safety in mining. Our focus remains on prevention and innovation.

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Visit Our Exhibition Stand

Discover comprehensive health and safety resources
Guidelines, research, and technology to enhance mining safety

- Guidelines**
 - Best practice handbook
 - Implementation guides
- Handbooks**
 - Comprehensive guides
 - Practical references
- Awareness Materials**
 - Educational content
 - Visual safety aids
- Research Outcomes**
 - Guidelines on safety
 - Long-term research

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Safety Impact – Record Of Progress

88%
Decrease in Fatalities
Since 1994

75%
Reduction in Injuries
Since 1994

24%
Year-on-Year Improvement
In Fatalities (2023-2024)

Recent Achievements



Historic Low

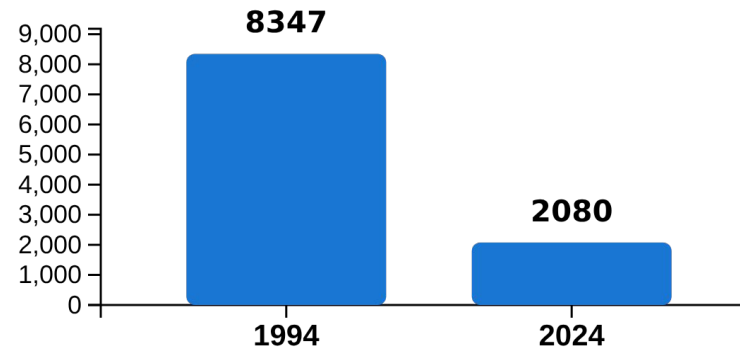
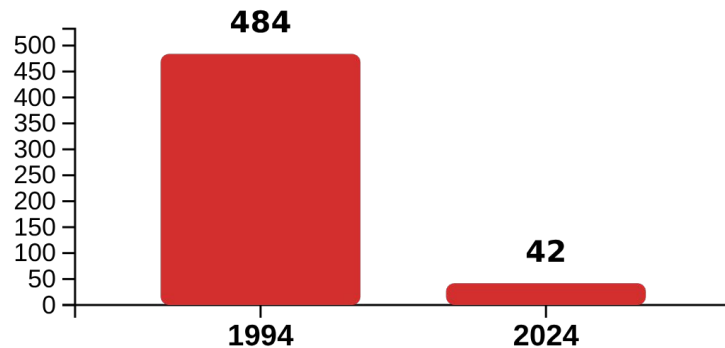
42 fatalities recorded in 2024, the lowest ever recorded



Key Improvements

- Fall of Ground accidents: 13% reduction
- Machinery accidents: 67% reduction
- No shaft conveyance related fatalities in 2024

Fatalities & Injuries Reduction



1994 vs. 2024

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Safety Innovation Working



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Persistent Health & Safety Challenges

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Falls of ground

Despite reduction efforts, this remains a significant cause of mining accidents



Trackless Mobile Machinery accidents

Vehicle-related incidents continue to pose significant safety risks



Occupational diseases

Long-term health impacts remain a challenge despite progress in prevention



Emerging challenges

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5. Behaviour & Culture Improvements

- Ongoing rollout of the **Culture Transformation Framework (CTF)**, promoting a proactive safety mindset.
- Development of engaging **videos, posters, banners, and training materials** to enhance Health & Safety awareness across all levels.
- Implemented targeted programs specifically designed to enhance the **health, safety, and security of Women in Mining**, fostering an inclusive and safe environment.

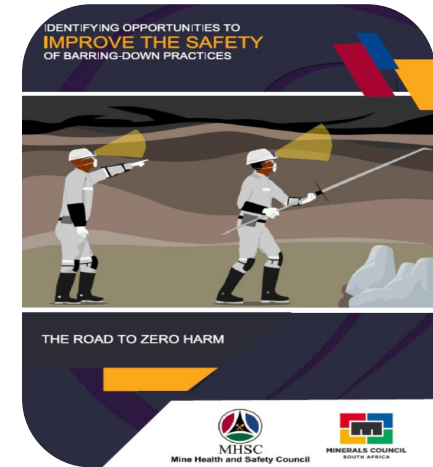
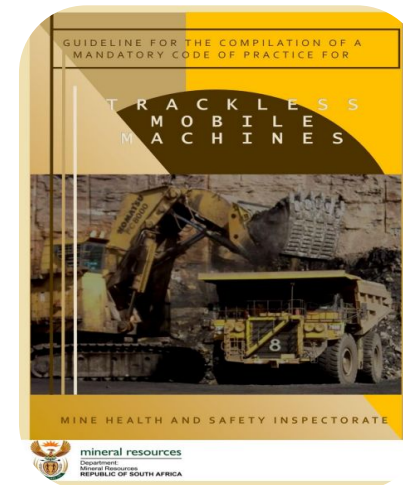
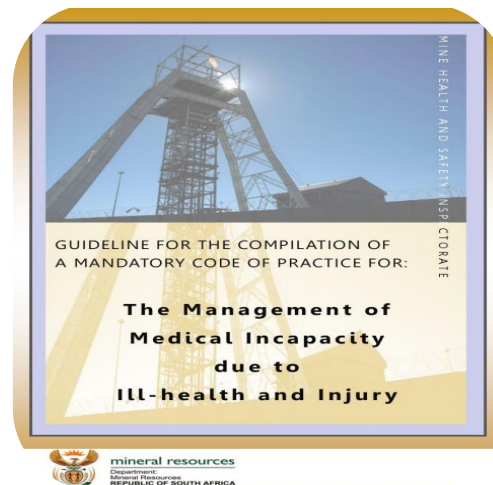
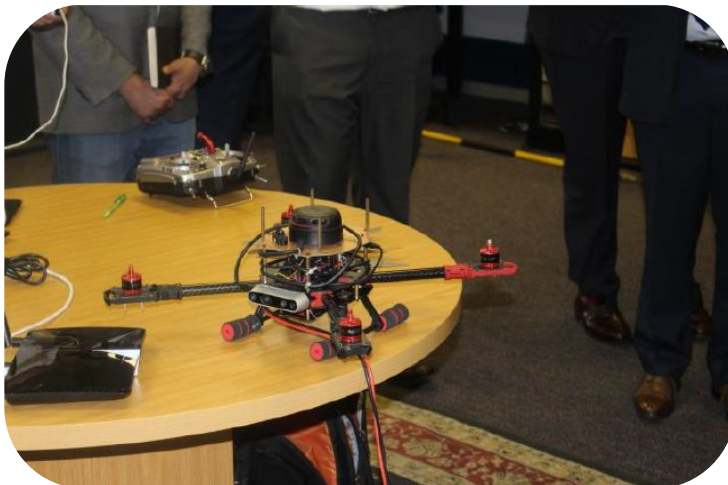
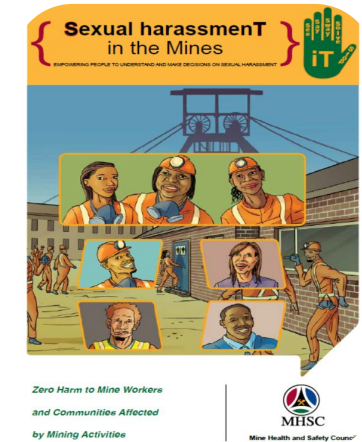
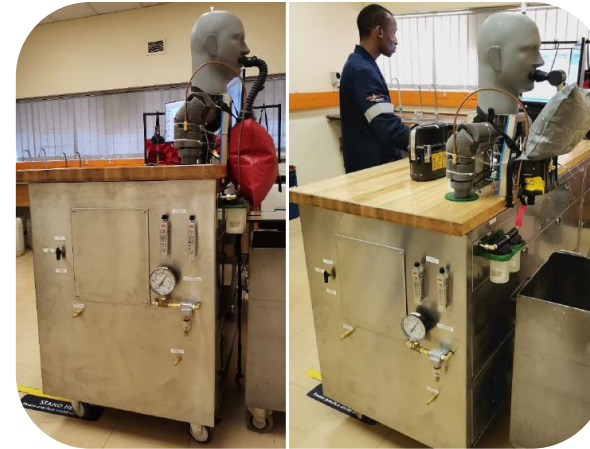
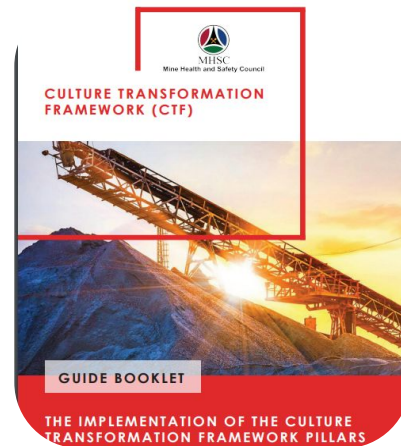
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Guidelines

- ✓ Best practices framework
- ✓ Implementation guides



Awareness Materials

- ✓ Educational content
- ✓ Visual safety aids



Handbooks

- ✓ Comprehensive guides
- ✓ Practical references



Research Outcomes

- ✓ Crystalline silica studies
- ✓ Leding practice research



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