

HELPING OFFICERS DISCHARGE THEIR DUE DILIGENCE DUTY UNDER THE QUEENSLAND MINING SAFETY LEGISLATION.

WHY THIS MATTERS

- From 1 June 2026, critical control management is law for every Queensland mine and quarry. The safety and health management system must identify critical controls, and each principal hazard management plan or material unwanted event must include them. These are legislated duties with penalties, not guidance.
- The duty also lands on officers personally. Under CMSHA 1999 s47A and MQSHA 1999 s44A, an officer (board, CEO, CFO, COO) must exercise due diligence, cannot delegate it, and can be convicted whether or not the corporation is charged.
- The shift is from **identify and document** to **verify and act**. The question for officers is narrow: can you prove your critical controls are identified, implemented and verified, to a standard a regulator would accept?

This is not theoretical. In March 2026 the New Zealand High Court upheld the personal conviction of a chief executive for failing the officer due diligence duty under closely comparable legislation, following a workplace death (Gibson v Maritime New Zealand [2026] NZHC 813). The finding was not recklessness. It was that he had not taken reasonable steps to assure himself of how the work was actually being done.

DIAGNOSTIC DELIVERABLES

- **Fatal risk profile and MUE threshold.** Are principal hazards, MUEs and the threshold correctly set and complete?
- **Structural assurance (CaNeTA).** The mine's own data as a causal network, so verification aims where the weight sits.
- **CCM system and documented information.** Are items called critical controls genuine controls, not relabelled procedures?
- **Field verification of control effectiveness.** Do controls exist, function and work in real operations?
- **Governance and due diligence.** Ownership, oversight, escalation and board reporting, mapped to each limb of the duty.
- **Maturity baseline and roadmap.** An ICMM 2026 CCM maturity rating, plus prioritised actions the board can track.

You receive a written report addressed to officers, with a Red/Amber/Green rating against each limb of the company officer duties, plus an executive presentation delivered in person by Mineplex and the Libero AI analyst.

TWO KINDS OF EVIDENCE, WORKING TOGETHER

Field and documented assurance (Mineplex). Boots on the ground, testing whether the things called critical controls are genuine and whether they work where the work happens. Led by a former Site Senior Executive on operating Queensland mines.

Structural assurance (CaNeTA Intelligence, by Libero AI). The data the mine already holds, turned into a causal network that ranks controls by structural load and surfaces single points of failure, sleeper risks and failing-lucky patterns. A peer-reviewed method from the University of Queensland's Sustainable Minerals Institute, run on IBM watsonx with Australian data residency. No new systems needed to start.

WHY MINEPLEX AND LIBERO AI

- **Statutory experience from the inside.** Mineplex is led by someone with more than 33 years across open-cut and underground coal, metals and exploration and 20 years as a Site Senior Executive (SSE) in Queensland. Field verification runs from the workface up.
- **A peer-reviewed method.** CaNeTA was originated at the University of Queensland's Sustainable Minerals Institute and is published in peer-reviewed journals, including the Fire Safety Journal (2023) and Risk Analysis (2024).
- **No new systems required.** The analysis runs on the data the mine already holds. No new software or data infrastructure is needed to start.
- **Two kinds of evidence.** Field and structural, so an officer can show they took reasonable steps, not just that they received a report.
- **Practical, not theoretical.** Operationally grounded recommendations you can act on, not paperwork for its own sake.

