mos | Training

SUPERVISORPROGRAM

Strata Management

Read the ground before it moves.

Effective strata management starts with understanding the ground, recognising how it can change and knowing what information is needed to make safe operational decisions.

This eight-module course builds a practical foundation in geology, stress, structural features, ground capability, support concepts, monitoring techniques and ground failure modes. It connects geological conditions with ground behaviour, support and monitoring, giving supervisors a clear framework for recognising and managing strata-related risk.

At a glance

Format
Online / LMS-based training

Structure
8 strata management modules

Audience
Underground supervisors and frontline leaders

Approach
Practical strata-management knowledge

Focus
Ground behaviour, support and monitoring

Who this course is for

- Underground coal mine supervisors
- Production and development frontline leaders
- Personnel involved in strata inspections and monitoring
- Supervisors working with ground support systems
- New or developing supervisors requiring strata-management knowledge

Learning outcomes

- Build a foundation in basic geology relevant to underground operations.
- Understand stress and stress redistribution around mine workings.
- Recognise the importance of structural geology in strata behaviour.
- Understand the role of ground capability analysis.
- Develop knowledge of ground support concepts.
- Understand key strata monitoring techniques.
- Recognise common ground failure modes and their significance.

Strata management depends on recognising what the ground is telling you, and how geology, stress, support and monitoring fit together.

Pricing

Pricing depends on delivery format and group size. Get in touch and we'll put a quote together for your site.

info@mappedoutsolutions.com

Course structure: Strata Management

Eight modules progressively build understanding of the ground environment, how stresses and structures influence behaviour, and how support and monitoring contribute to effective strata management.

Module 1
Introduction & Context

Establish the purpose and context of strata management and the supervisor's role in understanding ground conditions.

Module 2
Basic Geology

Build the geological foundation needed to understand the materials and conditions encountered underground.

Module 3
Stress & Stress Redistribution

Explore stress in the ground and how mining activity can change and redistribute that stress.

Module 4
Structural Geology

Develop awareness of geological structures and why they matter when assessing strata conditions.

Module 5
Ground Capability Analysis

Understand the concept of assessing ground capability as part of informed strata-management decisions.

Module 6
Ground Support Concepts

Explore the principles and purpose of ground support within the overall strata-management system.

Module 7
Strata Monitoring Techniques

Understand the role of monitoring techniques in observing ground behaviour and identifying change.

Module 8
Ground Failure Modes

Recognise different ground failure modes and build awareness of how failure can present in underground workings.

Where this sits

Queensland expanded what coal mine supervisors are accountable for, but no new qualification was created to match. Deputies, OCEs and mine managers hold certificates of competency, practising certificates and ongoing CPD. Supervisors hold S123, a two-day committee-recognised competency cluster that was never written for the duties they now carry.

S123 remains the recognised supervisor competency in Queensland. This course sits around it, not in place of it, and builds on the ground the QMIHSC Supervisor Project mapped out.

Industry alignment

QMIHSC Supervisor Project, The University of Queensland, 2026

The QMIHSC Supervisor Project warned that the national units of competency miss the supervisor's role in critical control and principal hazard management. Strata is a principal hazard, and this course builds the ground knowledge that role depends on.

Training need identified by the project	How this course delivers it	Status
Risk and critical control management Facilitating task-based risk assessments and verifying critical controls for material unwanted events.	Modules 5 to 8: ground capability analysis, support concepts, monitoring techniques and failure modes, the knowledge behind the ground-condition checks made on shift.	**Delivered and extends**
Application of the SHMS Applying the relevant parts of the safety and health management system to the day-to-day role.	Module 1 places the supervisor's role inside the site strata-management system.	**Delivered**

Units of competency the project identified

RIIRIS402X	Carry out risk management process	In this course
RIIWHS403E	Apply the work health and safety management system	
RIIERR301E	Respond to work site incidents	
RIICOM301X	Communicate information	
RIIWHS301X	Conduct initial safety and health investigations *Flagged by the project, not confirmed*	

Content alignment only. MOS content is mapped to the nine training needs and to the four RII units the project confirmed, with investigations flagged as a likely fifth. Formal alignment to those units is in progress with a registered training organisation. It is not the Queensland-specific unit UQ recommended.

Book today

Build supervisor capability that matches the duties the role now carries. Bring the Supervisor Program to your site with MOS Training.

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Our training strengthens frontline capability, improves operational discipline and supports safer, more consistent decision-making.

We will always have a plan.