



**TECHTONIC**  
MINING SOLUTIONS

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# **CAPABILITY STATEMENT**

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# How Can We Help?

Tectonic Mining Solutions is committed to partnering with clients to deliver projects, discrete packages of work, or supporting operations with embedded resources (office or site based) during periods of absence or recruitment. Our team possesses industry-leading knowledge in the technical and leadership domains within the Open Pit environment. We offer services in the following areas:



## Leadership

- **Statutory Coverage:** Providing qualified Quarry Managers and Senior Site Executives.
- **Manager/Superintendent Level Coverage:** Offering comprehensive support for Mine Operations.
- **Process and Safety Audits:** Conducting thorough evaluations to enhance operational safety and efficiency.
- **Leadership and Culture Coaching:** Mentoring to foster effective leadership and a positive organizational culture.



## Planning – Studies and Life of Mine

- **Due Diligence:** Comprehensive assessments for informed decision-making.
- **Strategic Mine Planning:** Long-term planning to optimize resource extraction.
- **Pit Optimization and Designs:** Creating efficient and sustainable pit designs.
- **Conceptual to Bankable Feasibility Studies:** Providing expertise from initial concepts to detailed feasibility analyses.
- **Life of Mine Planning and Designs:** Crafting robust plans for the entire mine lifecycle.
- **Resource/Reserve Reporting:** Accurate and compliant reporting of resources and reserves.
- **Financial Modelling:** Economic evaluation to support strategic planning.



## Planning – Operations

- **Operations/Site-Based Planning:** Detailed daily, weekly, and fortnightly planning for seamless operations.
- **Technical Services/Off-Site Planning:** Quarterly to five-yearly planning horizons for sustained growth.
- **Mine Model Setup and Review:** Enhancing mine models for precision and efficiency.
- **Training and Mentoring:** Skill development across all planning horizons to build a capable workforce



## Design

- **Operational Level Design:** Generating practical designs that meets day-to-day operational needs.
- **Life of Mine/Strategic Level Design:** Long-term design solutions for sustained productivity.
- **Design Review and Improvement:** Enhancing existing designs for optimal performance.
- **Coaching and Mentoring:** Empowering teams through knowledge transfer.
- **Decarbonization Strategy Implementation:** Integrating sustainable practices to reduce carbon footprints.



## Drill & Blast

- **Drill Pattern Design:** Custom solutions for production, contour/support, heritage, and vibration-sensitive areas.
- **Blast Design:** Creating load plans, timing, and vibration management for effective blasting.
- **Blast Optimization:** Improving fragmentation and reducing fly rock and vibration.
- **Senior Drill and Blast Support:** Providing field leadership and skill enhancement for teams.
- **Operations Review:** Identifying gaps and recommending improvements in drill and blast practices.



## Production

- **Production/Projects Engineering:** Expert engineering support for increased efficiency.
- **Production Audits:** Comprehensive reviews for productivity improvements.
- **Productivity Initiatives:** Implementing and embedding initiatives to boost output.
- **Load and Haul Improvements:** Enhancing efficiency in material movement.



## Get In Touch

To speak to one of the team and find out how we can collaborate simply get in touch:



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**We look forward to working together soon!**