



Tailings Management

PROFESSIONAL CERTIFICATE

AusIMM, in conjunction with leading experts in the mining industry, has developed the Professional Certificate in Tailings Management. Featuring internationally-renowned tailings experts and case studies, the course covers geotechnical, geochemical, governance, closure and socio-economic considerations of tailings management.

The interactive, online format of the course provides participants with an opportunity to learn in a community-based environment from wherever they are situated.

Tailings management affects a wide range of mining stakeholders, including contractors, mine operators, regulators and communities, which is why it is vital to get it right.



PD hours
40 hours



Delivery
100% online



Duration
40 hours
8 weeks

Gain competency and expand your knowledge on the geotechnical, geochemical, governance, closure and socio-economic considerations of tailings management.

The course content for each module will be delivered over one week. Each module consists of:

- A live 90-minute virtual classroom featuring industry experts
- An optional 30-minute Q&A session (follows the virtual classroom)
- Pre-recorded videos, featuring Q&As with global tailings experts
- Interactive learning activities and group discussions

- Additional readings and case studies
- Multiple choice knowledge checks

A final assessment featuring a series of short answer questions is also due at the end of the course. Participants must achieve 60% to pass and have the opportunity to resubmit if they do not achieve a pass on the first attempt.

Please note the live sessions are not mandatory, the virtual classrooms will be recorded and available on the same day for participants who are unable to attend the live event.

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Pricing

Professional Certificate

Member A\$2,775

Non-member A\$3,625

Prices are in Australian dollars and are inclusive of 10% GST

[Find out more](#)



Module 1 | Introduction to tailings management

- Describe the key elements of tailings management
- Explain the variations in tailings management globally
- Describe the cause(s) and impact(s) of tailings dam failures
- Discuss some opportunities for improvement to tailings management



Module 2 | Geotechnical considerations

- Identify the key geotechnical causes of tailings dam failures
- Explain tailings risk assessment methods and risk acceptability
- Explain tailings dam/storage design
- Discuss the key tailings geotechnical parameters
- Explain construction and operation to ensure compliance with the design intent



Module 3 | Geochemical and water considerations

- Explain the geochemical nature of tailings
- Identify the potential for contamination from tailings
- Understand the tailings water balance
- Describe the management of potentially contaminating tailings



Module 4 | Governance and surveillance

- Interpret multi-stakeholder governance
- Discuss regional and global guidelines
- Examine tailings management regulations
- Interpret corporate governance
- Discuss types of monitoring
- Explain links to triggers and emergency response
- Discuss frequency of monitoring and analysis



Module 5 | Tailings management for closure

- Explain residual risk and tailings closure opportunities
- Discuss closure challenges for tailings storage facilities
- Explain capping and revegetation of tailings
- Discuss learnings from tailings closure case studies



Module 6 | Socio-economic considerations

- Discuss financial and social license to operate
- Explain why communities matter in tailings management
- Understand sustainable tailings management
- Explain effective tailings stewardship
- Discuss net present value versus whole-of-life accounting
- Discuss post-mining land use and ecological function