

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 will cover geotechnical, geochemical, governance, closure and socio-economic considerations of tailings management.

The interactive, online format of the course will provide 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
3-6 hours
Per module



Delivery
100% online



Duration
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 webinar featuring industry experts
- An optional 30-minute Q&A session
- Pre-recorded videos, featuring Q&As with global tailings experts
- Interactive learning activities and group discussions
- Additional readings and case studies
- Multiple choice questions

Pricing

Professional Certificate

Member \$2,519
Non-member \$3,289

Individual module

Member \$660
Non-member \$825

Prices 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