AusIMM Courses

YOUR QUICK REFERENCE TOOL FOR MINE CLOSURE PREPARATION

Based on material from the **Integrated Mine Closure Professional Certificate**
For full details visit **www.ausimm.com/courses**

INTRODUCTION

Welcome to your go-to resource for a concise overview of key technical considerations within Integrated Mine Closure (IMC). This quick-reference tool considers some of the objectives highlighted in module 5 in IMC, which is a component of the overall Integrated Mine Closure process covered in the Professional Certificate curriculum.
To gain a deeper understanding of how aspects of this resource function, it is worth understanding the challenges that underpin successful integrated mine closure with AusIMM's other free resource, Top 5 Integrated Mine Closure Challenges and Solutions.

The information covered in this quick-reference tool presents a condensed glimpse of the overall Integrated Mine Closure process.

Explore the comprehensive curriculum by clicking below:

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Module 1
Introduction to IMC

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Module 2
Social Transition

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Module 3
Integrated Planning

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Module 4
Risk/Opportunity & Closure Planning

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Module 5
Execution

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Module 6
Success Criteria, Monitoring & Relinquishment

Your Quick Reference Tool for Mine Closure Preparation

A quick reference tool for resources professionals to navigate the complex terrain of mine closure and ensure a smooth and compliant process.

Define Future Land Use: This is an important consideration for both environmental and economic reasons. By defining future land use, you can help to ensure that the closure is compatible with the surrounding area.

Active vs. Passive Treatment: This is an important decision that should be made on a case-by-case basis. Active treatment methods can be more effective in controlling AMD, but they can also be more expensive. Passive treatment methods are less expensive, but they may not be as effective.

Minimise Rehandling and Sterilisation: This is another important consideration, as it can help to reduce the costs of closure. By minimizing the rehandling of materials, you can also help to preserve the natural environment.

Your Quick Reference Tool for Mine Closure Preparation

Integrate Rehabilitation Plan with Mine Plan: This is essential to ensure that the closure plan is realistic and achievable. By integrating the rehabilitation plan with the mine plan, you can ensure that the necessary resources are available to carry out the closure properly.

Promote Strategic Terminology: This is a good way to avoid negative perceptions of mine closure. By using language that emphasizes future land use and stewardship, you can help to build trust with the community.

Connect Progressive Rehabilitation with Closure Costs: This is a good way to optimize the overall costs of mine closure. By incorporating progressive rehabilitation into the closure plan, you can reduce the need for costly remediation measures in the future.

Consider Indigenous Land Perspectives: This is an important step in ensuring that the closure process is fair and equitable. By understanding the cultural & environmental values of the affected community, you can develop a closure plan that is respectful of their needs.

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Understand Annual Exceedance Probability & Factor of Safety: These are two important concepts in closure design. By understanding these concepts, you can ensure that the closure design is safe and effective.

Craft Comprehensive Design Basis Report: This is a key document that should be developed for every mine closure. The design basis report should document the closure plan in detail and should be reviewed and approved by all stakeholders.

Assess dynamic geochemical characteristics of process residue material and potential impacts on water quality: This is an important step in ensuring that the closure does not have negative impacts on water quality. By understanding the geochemical characteristics of the material, you can develop a closure plan that minimizes the risk of AMD and other water quality problems.

Consider cover systems and liner storage facilities to prevent long-term post-closure AMD treatment needs: This is an important consideration for long-term closure planning. By using cover systems and liner storage facilities, you can help to prevent the release of AMD and other contaminants into the environment.

Integrated Mine Closure

PROFESSIONAL CERTIFICATE

Learn how Integrated Mine Closure (IMC) can realise significant value to operations; how to assess closure risks; opportunities to realise value and maintenance programs to drive relinquishment.

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