

HANDBOOK ON MINE FILL MINE CLOSURE 2016

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What is the strategic framework for mine closure? The Strategic Framework for Mine Closure is structured around a set of objectives and principles grouped under six key areas (stakeholder involvement, planning, financial provision, implementation, standards and relinquishment).

How to prepare a mine closure plan? As per the Statutory Guidelines for Mine Closure Plans the mine closure plan must include a description of the mining operation, and a map of the location of the mining operation showing all relevant mine activities, land disturbances, tenements and other land tenure.

What is the concept of mine closure? Mine closure is a formal process of planning and managing the decommissioning of a mine site, mitigating impacts and legacy issues, undertaking environmental rehabilitation and, eventually, relinquishing the leases. 2. It's both a process and a discrete event in the mining lifecycle. A mine has a finite lifespan.

What is the process of mining? The mining industry operates through a sequence of stages: exploration, discovery, development, production and reclamation. All stages of this Mining Cycle provide direct economic stimulus.

What are the four 4 phases of strategic framework? The strategic planning process consist of four key phases of strategic planning — environmental scanning, strategy formulation, strategy implementation, and evaluation and control — it involves rigorous analysis, decision-making, and action.

What are the 8 steps of strategy framework?

What is the mine closure strategy? Planning for closure early in the project-development phase is critical to achieving your objectives. A good closure plan contains a vision of how the mine land and infrastructure will be used after closure, with the aim of achieving a positive legacy.

What is the cost of mine closure? For opencast mine, an amount @ Rs 9.00 lakhs per Ha of the project area is required to be deposited in this escrow account for final mine closure after adjustment for WPI on the date of computation.

What happens after mine closure? Eventually, once the most accessible and valuable materials have been extracted, the mine is closed, and the site must be restored back to its original state. This includes covering up mine entrances, replanting grass and trees, and testing surrounding water, soil, and air for contaminants.

What is the closure theory? In Gestalt psychology, the law of closure is the action the brain takes to fill in gaps in things it perceives. For example, if someone sees a circle with gaps in the line, they still understand that the shape is a circle because the brain fills in those gaps.

What is the main purpose of closure? A closure is the combination of a function bundled together (enclosed) with references to its surrounding state (the lexical environment). In other words, a closure gives a function access to its outer scope. In JavaScript, closures are created every time a function is created, at function creation time.

What are the economic impacts of mine closure? Therefore, mine closure has socio-economic disadvantages to hosting communities. It leads to widespread joblessness, which in turn increases the levels of poverty in those specific regions.

What are the 6 steps in the mining process?

What are the 7 negative impacts of mining? Mining can cause erosion, sinkholes, loss of biodiversity, or the contamination of soil, groundwater, and surface water by chemicals emitted from mining processes. These processes also affect the atmosphere through carbon emissions which contributes to climate change.

What are the 4 types of process mining? Types of process mining Process mining tools provide four core capabilities: automated process discovery, conformance checking, performance mining, and variant analysis.

What are the 4 pillars of strategy?

What is a strategic plan pdf? The concept of strategic planning, on the other hand, is defined as an instrument that allows making long-term plans in consideration of the risks and opportunities faced by the organization, and improving efficiency by acting in line with these plans.

What is the final step in the strategy making process? Implement the strategic plan. The final step of the strategic planning process is implementing the plan . In some cases, this can be the most involved step in the planning process depending on the objectives you've set.

What are the 5 P's of operation strategy?

What are the 5 P's of strategy in the strategy process? It provides a comprehensive way to analyse and develop meaningful, easy-to-understand strategies. So, what are the 5 P's? They stand for Plan, Ploy, Pattern, Position, and Perspective. Let's break each one down.

What are the three rules of strategy? 1) Better before cheaper: Don't compete on price, compete on value. 2) Revenue before cost: Don't drive profits by cutting cost, instead find ways to earn higher prices or higher volume. 3) There are no other rules: View all your other choices through the lens of the first two rules. Where to from here?

What is the mine closure strategy? Planning for closure early in the project-development phase is critical to achieving your objectives. A good closure plan contains a vision of how the mine land and infrastructure will be used after closure, with the aim of achieving a positive legacy.

What are the 4 key elements of a strategic framework? A strategic framework serves to provide structure to this type of long-term planning by focusing on four key elements: vision, mission, time frame and objectives.

What is the strategic framework approach? Your organization's strategic framework is a document that contains your vision, mission, values, plans, objectives, and tactics. It may contain a lot of information but can be written in a relatively concise fashion. Your strategic framework contains your complete vision for the direction of your organization.

What is a framework for off earth mining method selection? Equipment mass and energy efficiency have been investigated as criteria for Off-Earth mining method selection. These factors are widely believed to be important to Off-Earth mining method selection as they are major constraints for planetary surface missions.

Unlocking the Secrets of Thermodynamics: Q&A Using "Thermodynamics: An Engineering Approach, 7th Edition"

Question 1: How do we calculate the work done by a constant-volume system?

Answer: Work done by a constant-volume system is given by $W = -P\Delta V$, where P is the pressure and ΔV is the change in volume.

Question 2: Explain the first law of thermodynamics in terms of an isothermal process.

Answer: For an isothermal process, the temperature remains constant ($\Delta T = 0$). The first law then becomes $Q = W$, indicating that the heat transferred to the system is equal to the work done by the system.

Question 3: What is the efficiency of a heat engine?

Answer: The efficiency of a heat engine is defined as the ratio of the work output to the heat input: $\eta = W_{out} / Q_{in}$.

Question 4: Discuss the concept of entropy and its relation to heat transfer.

Answer: Entropy is a measure of disorder. During heat transfer, entropy tends to increase, favoring the spontaneous flow of heat from higher to lower temperatures.

Question 5: What is the significance of the Gibbs free energy in chemical reactions?

Answer: The Gibbs free energy (G) measures the maximum amount of non-expansion work that can be obtained from a closed system under isothermal and isobaric conditions. A negative value of G indicates that the reaction is spontaneous.

Solving Problems with "Thermodynamics: An Engineering Approach, 7th Edition"

"Thermodynamics: An Engineering Approach, 7th Edition" provides comprehensive solutions to complex thermodynamics problems. By studying the solutions, students can gain a deeper understanding of the concepts and develop problem-solving skills.

For example, the textbook offers a detailed solution to a problem involving the work done by a piston-cylinder system in a cyclic process. The solution includes a step-by-step explanation of how the work is calculated using the pressure-volume diagram and the first law of thermodynamics.

Additionally, the textbook provides insights into numerical methods for solving thermodynamics problems. By utilizing these methods, students can efficiently obtain solutions to complex problems, such as those involving heat exchangers and power cycles.

Textbook Selection and Evaluation in EFL Context

Textbooks play a pivotal role in EFL (English as a Foreign Language) instruction, serving as the primary resource for organizing instruction and guiding students' learning. Therefore, textbook selection and evaluation must be approached strategically to ensure the optimal choice for a particular learning context.

1. Why is Textbook Evaluation Important?

Evaluating textbooks helps identify materials that align with the curriculum objectives, learner needs, and teaching style. It enables educators to make informed decisions that can enhance student engagement and learning outcomes.

2. Key Aspects to Consider in Textbook Evaluation

When evaluating an EFL textbook, consider factors such as:

- **Content:** Accuracy, relevance to learning objectives, presentation of vocabulary, grammar, and cultural insights
- **Methodology:** Alignment with teaching methods, catering to different learning styles, use of technology
- **Layout and Design:** Organization, readability, appeal to learners, accessibility for diverse abilities
- **Supplementary Materials:** Availability of teacher's guides, student workbooks, online resources, and assessment tools

3. Involving Stakeholders in the Evaluation Process

Stakeholders such as teachers, students, and administrators should participate in the evaluation process to gather diverse perspectives. This ensures that the chosen textbook meets the specific requirements of the learning environment.

4. Utilizing External Resources for Textbook Selection

External resources like book reviews, professional organizations, and online databases can provide valuable insights into textbook quality. They offer expert evaluations and recommendations to help educators make informed decisions.

5. Ongoing Evaluation and Adjustments

Textbook evaluation should not be a one-time process. Teachers should monitor textbook effectiveness regularly and make necessary adjustments based on student feedback, learning outcomes, and changes in the learning environment. This ensures that the textbook remains relevant and effective throughout the course.

Toyota Kaizen and the Basic Stability Art of Lean

Question 1: What is Toyota Kaizen?

Kaizen is a lean manufacturing philosophy that emphasizes continuous improvement in all aspects of operations. It is based on the idea that by making small, incremental changes over time, organizations can achieve significant improvements in efficiency, quality, and productivity.

Question 2: What are the Basic Stability Art of Lean?

The basic stability art of lean is a set of principles and practices that provide the foundation for implementing Kaizen. These principles include:

- **Stability:** Creating a stable work environment by identifying and eliminating sources of variation.
- **Flow:** Smoothing the flow of work through the production process.
- **Pull:** Producing products only when they are needed.
- **Perfection:** Continuously striving to improve processes and eliminate waste.

Question 3: How does Kaizen incorporate the Basic Stability Art of Lean?

Kaizen applies the basic stability art of lean by focusing on identifying and eliminating waste in all areas of operations. This includes:

- **Waste in production processes:** Identifying and eliminating bottlenecks, inefficiencies, and defects.
- **Waste in inventory:** Reducing inventory levels to minimize costs and improve cash flow.
- **Waste in movement:** Optimizing the layout of workstations and equipment to reduce unnecessary movement.
- **Waste in waiting:** Reducing wait times by improving process flow and scheduling.

Question 4: What are the benefits of implementing Kaizen?

Organizations that implement Kaizen typically experience numerous benefits, such as:

- Increased productivity and efficiency
- Improved quality and customer satisfaction
- Reduced costs and waste
- Improved employee morale and engagement

- Enhanced innovation and adaptability

Question 5: How can organizations start implementing Kaizen?

To implement Kaizen, organizations should:

- Establish a clear vision for improvement
- Engage employees in the process
- Identify and prioritize areas for improvement
- Develop and implement small, incremental changes
- Monitor progress and make adjustments as needed
- Continuously seek opportunities for further improvement

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