

# Workshop: Mine Closure

Jan. 24 - 25, 2019 | 9:00am - 6:00pm | Zacatecas, Mexico



## Objective:

Learn from leading SRK experts how to overcome technical, economic, environmental, and social challenges when implementing mine closure plans. This workshop will cover all aspects of effective mine closure strategy, including general closure review, geochemistry, hydrology and surface water management, engineering and design, post closure monitoring, and accurate quantity and cost calculations.

**Registration:** [contacto@ficemin.com](mailto:contacto@ficemin.com) | +52 (492) 147 7094

# Course Content

## 1. Introduction to Mine Closure - Development of the Closure Plan

- a) Mine Closure Historically
- b) Designing for Closure
- c) Closure Planning Considerations
- d) Closure Plan Development
- e) Risk Quantification

## 2. Environmental studies - Long-Term monitoring

- a) Applicable International Regulations
- b) Baseline Studies
- c) Instrumentation
- d) Data Management

## 3. Geochemical Considerations

- a) Need for Geochemical Characterization and Requirements of Mexican Official Standards
- b) Generation of Acid Rock Drainage (ARD), neutralization and leaching of metals
- c) Geochemical Conceptual Models
- d) Design of Sampling and Analytical Programs
- e) Design of Waste Management program
- f) Examples of Closure Strategies
- g) Post-closure Water Quality Monitoring

## 4. Hydrogeology in Mine Closure

- a) Hydrogeological Conceptual Model
- b) Hydraulic Testing and Determination of Hydraulic Parameters
- c) Drilling and Installation of Monitoring Wells
- d) Monitoring and Control of Groundwater Inflows
- e) Hydrogeological Models for Pit Lakes
- f) Geochemical Models for Pit-Lake Water Quality Control
- g) Post-closure Water Quality Monitoring

## 5. Geotechnical Considerations

- a) Gap Assessment
- b) Geotechnical Characterization
- c) Risk Assessment
- d) Establishing Design Criteria
- e) Slope Stability and Liquefaction Assessment

## 6. Surface Water Management

- a) Surface Water Hydrology Basics
- b) Contact Water Management
- c) Non-Contact Water Management
- d) Risk Based Design

## 7. Engineering Analysis and Designs

- a) Cover Design
- b) Landform Design
- c) Decommissioning of Facilities
- d) Construction Documentation

## 8. Leaching Pads Closure

- a) Regulations
- b) Best Practices
- c) Rinse vs Recirculating
- d) Solutions Management
- e) Leaching Pads Drain Modeling (Draindown)

## 9. Cost Estimation

- a) Cost Estimate Types
- b) Closure Cost Estimating
- c) Closure Cost Considerations
- d) Financial Assurance Case Study
- e) Developing the SRCE Estimator (Standardized Reclamation Cost Estimator)

Space is limited - reserve your spot today!

## SRK Instructors

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