

# WATER IN MINE OPS AND SLOPE STABILITY

PROFESSIONAL DEVELOPMENT COURSE

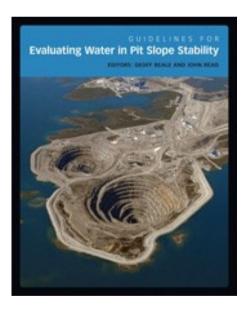
**COURSE BEGINS JUNE 4TH, 2024** 

Offered by the GCE and developed in collaboration with...





Course content is based on the LOP's Guidelines for Evaluating Water in Pit Slope Stability text, with additional and updated material for controlling water in mining operations and improving geotechnical slope stability. The course will also include case studies of water management challenges and solutions in open pit and underground mines.



## Register now! COURSE FEE: \$899\*

LIVE & ONLINE, this 15-week course includes ~30 hours of pre-recorded content with live, virtual Q&A sessions, where students can engage directly with subject matter experts.

\*Discounts available for GCE Members, current students, and groups of 6+

### **WHO SHOULD ATTEND?**

Engineers, Geologists,
Hydrogeologists, Mining
Engineers, Managers, other
Mining or Geotechnical
Professionals interested in
gaining a better
understanding of the role
water plays in mine
operations and slope
stability.

## **TOPICS COVERED**

Framework and site characterization • Development of a conceptual hydrogeological model • Numerical model applications • Implementation of mine water control systems • Monitoring and design reconciliation • Open pit and underground water management



#### SCAN THE OR OR CLICK HERE TO REGISTER TODAY!

Questions? Contact the Geotechnical Center of Excellence: <u>gce@arizona.edu</u> Or visit <u>minerals.arizona.edu/innovation/geotechnical-center-excellence</u>



## **WATER IN MINE OPERATIONS AND SLOPE STABILITY**

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HOW WATER AFFECTS MINING	
GENERAL INTRODUCTION TO MINE HYDROLOGY	
SECTION 1 DEWATERING VS. DEPRESSURIZATION	
PLANNING OF MINE HYDROLOGY PROGRAMS	
DATA COLLECTION	
POROUS MEDIUM VS. FRACTURE FLOW	
CONCEPTUAL MODEL	
SECTION 2 EXCAVATION DAMAGED ZONE (EDZ)	
WATER BALANCE AND WATER QUALITY CONCEPTS	
GLOBAL BENCHMARKING	
PLANNING OF NUMERICAL MODELS	
WATER INPUT TO GEOTECHNICAL ANALYSIS	
SECTION 3 GROUND WATER AND PORE PRESSURE MODELS	
WATER BALANCE AND WATER QUALITY TOOLS	
WASTE ROCK HYDROLOGY	
STRATEGIC PLANNING	
SLOPE DEPRESSURIZATION	
SECTION 4 SURFACE WATER MANAGEMENT	
IN-PIT REAL ESTATE AND ACCESS	
SITE-WIDE WATER MANAGEMENT	
MONITORING PROGRAMS	
PERFORMANCE ASSESSMENT	
SECTION 5 INTERACTIVE PLANNING AND RISK MANAGEMENT	
GEOTECHNICAL AND HYDROGEOLOGICAL GUIDELINES FOR MINE CLOSURE	
NINE KEY INDUSTRY ISSUES	

#### END OF COURSE GEOTECHNICAL WATER MONITORING MINI-SYMPOSIUM

SUBMIT A CASE STUDY OR WATER-RELATED PRESENTATION AND RECEIVE 50% OFF YOUR NEXT COURSE!

