

# FUNDAMENTALS OF OPEN PIT SLOPE DESIGN

A professional development course covering the fundamental concepts and best practices for geotechnical analysis and design of open pit mine slopes from project concept through closure.

A 21-week asynchronous online course starting September 16, 2025



THE UNIVERSITY OF ARIZONA  
School of Mining  
& Mineral Resources

This course, offered by the Geotechnical Center of Excellence and based on the LOP Project's Guidelines for Open Pit Slope Design text, overviews the fundamental concepts and best practices for slope analysis and design throughout the life cycle of an open pit mine. Participants will be provided with knowledge to aid in the investigation and design process, as well as guidelines for appropriate methods of data collection, processing, and analysis, all towards the goal of designing and maintaining stable and economical slopes. **The course starts September 16, 2025.**

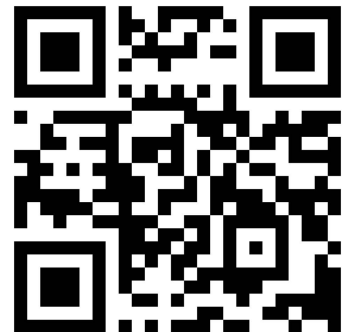
## Topics covered:

- Field Data Collection
- Geological, Structural, and Hydrogeological Models
- Rock Mass Model and Geotechnical Model
- Slope Design Analysis Methods
- Data Uncertainty and Design Acceptance Criteria
- Design Implementation and Performance Monitoring
- Risk Management
- Open Pit Closure

## \$899 USD

Discounts for GCE members, groups, and students.

REGISTER



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## ADVISORS



### Scott Cylwik

Vice President,  
Call & Nicholas, Inc.

A specialist with fifteen years of experience on over 100 open pit mine slope stability projects with expertise in slope stability, rock mechanics, probabilistic analysis, and anisotropic strengths.



### Karen Moffitt

President,  
Equilibrium Mining

A technical specialist with over 25 years of experience in some of the world's most complex mine environments and expertise in design studies for open pit and underground mines.



### Martyn Robotham

Director, Robotham  
Consulting Services

An expert in surface mine geomechanics and slope management with 38 years of experience in mining environments across the globe.

Questions? Contact [gce@arizona.edu](mailto:gce@arizona.edu)



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Large Open Pit  
Project