

# Applied Structural Geology in Exploration and Mining: A Practical Workshop



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**Many ore deposits are formed within tectonically active areas, such as ancient basins and orogenic belts. It is no wonder then that the vast majority of mineral deposits are affected or controlled by geological structures. From the perspective of mineral exploration and mining, the potential influence of geological structures on projects cannot be understated, with structures impacting most technical issues, including: regional exploration targeting, deposit delineation, Mineral Resource estimation, rock mass engineering and hydrogeology.**

## OVERVIEW OF THE WORKSHOP

SRK is pleased to be able to offer a professional development workshop consisting of practical technical training in structural geology developed for exploration and mining geologists.

The workshop material is designed to provide the attendee with a broad knowledge of salient concepts in structural geology applicable to mineral deposits and to equip the attendee with key practical skills that will enable them to interpret a wide range of structural data and therefore make informed decisions in areas of structural uncertainty.

## WORKSHOP CONTENT

Designed to be of real-world practical use, the workshop is planned to consist of 2 days of lectures (50%) and practical exercises (50%) that draw on the global experience of SRK's structural geologists and use case studies from projects with different technical focus (e.g., exploration, mining, rock mechanics and Mineral Resource projects). This will be followed by a day for developing practical structural geology experience, conducting mapping of selected parts of the open pits and structural analysis of drillcore in the core yard.

The proposed workshop consists of ten modules consisting of both taught components and practical exercises.

Each attendee will receive a printed copy of the workshop presentations.

Practical exercises will be given to attendees throughout the course of the workshop.

**The provisional workshop schedule is as follows\***

Module Schedule	
	Title
Day 1	1 Introduction and basic concepts
	2 Introduction to the practical use of stereonet in structural analysis
	3 Faults and related structures
	4 Shear zones and ductile deformation
Day 2	5 Folds and related structures
	6 Structurally-controlled fluid flow
	7 Structural data collection in the drilling and QAQC environment
Day 3	8 Structural geological mapping in mineral exploration and mining
	9 Open pit mapping - practice
	10 Structural evaluation of drillcore – practice

\*SRK reserves the right to modify the workshop running-order and content as appropriate.

## FURTHER INFORMATION

Accommodation will be provided on site. All attendees are responsible for their own travel arrangements to and from the site.

Any further questions and expressions of interest should be directed to **Chris Bonson** [cbonson@srk.co.uk](mailto:cbonson@srk.co.uk).

**Workshop attendance fee:** US \$800 per person

**Max no. of attendees:** 15–20

## OUR CONTACTS

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