



The MINING BASICS GROUP of Canada

The BASICS of GEOLOGY, MINING, & MINERAL PROCESSING

**Basics of Geology, Mining, and Processing
Professional Development / Continuing Education**

**Basics of Geology, Mining, and Processing for the Investment Community
2-day Short Course / Seminar**



Objectives

- Provide a better understanding of:
 - Technical terms and fundamentals
 - Processes
 - Meaning of information
 - Technical risks

*Focus on integration of geology,
mining, and mineral processing*

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Professional Development Seminar



How will we do this?

- Teach technical background
- Relate our own personal experiences
- Review examples

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Who should attend

- Financial analysts, fund managers, etc.
- Non-technical professionals working for mining companies
- Lawyers, Accountants, Insurance brokers, etc. dealing with the mining industry
- Natural-Resources, Environmental, Statistics government officials
- Service industries dealing with mining
- Private investors

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Course content

Geology

- ▶ Geology of Ore Deposits
- ▶ Including Deposit characteristics affecting mining
 - Mineralogy, Size, grade and tonnage
 - Shape, Ore controls / Limits of ore
- ▶ Including General Geology
- ▶ Focus on gold, base metals, uranium, iron ore, coal
- ▶ Also covered: critical minerals, battery materials

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Course content

Resource Estimation & Reporting

- Sources of error
- Techniques and uses
- Classification Standards
- Qualified Person
- NI 43-101

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Course content

Mining Methods

- Open Pit & Underground
- Mobile equipment
- Open pit design parameters
- Underground mining methods

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Course content

Processing & Extraction

- Milling processes & operations
- Metal extraction & refining
- Focus on metals: gold, nickel, copper, critical minerals

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Course content

Due Diligence

- ❖ Due-diligence process
- ❖ Identification of red flags

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Course content

Costs drivers

- Review of factors influencing operating and capital costs
- Mining and mineral processing

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Cost

- ▶ \$1,945 per person (plus HST) early bird registration;
- ▶ \$2,145 (plus HST) last minute registration
- ▶ Group discounts for both
- ▶ Class notes and USB key included
- ▶ Breakfast, lunch, & coffees included

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George McIsaac P.Eng., Ph.D.



- ▶ Mining Engineer
- ▶ Mineral Economist
 - Strategic Planning
 - Economic Evaluation
- ▶ Independent consultant
- ▶ Former Superintendent of Technical Services @ El Indio Mine, Barrick, Chile
- ▶ Former Adjunct Professor @ Queen's University



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David A. Love Ph.D. (Geological Sciences)

- ▶ Specialist in
 - Mineral deposits geology
 - Igneous rocks
 - Geochemical Exploration
- ▶ Independent consultant:
 - Ore Deposit Geology,
 - Mineral Exploration,
 - Environmental Geochemistry
- ▶ Former Adjunct Professor @ Queen's University





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Boyd Davis Ph.D.

- ▶ Chemical Process Metallurgist
 - Process Development
 - Techno-Economic & Process Modeling & Analysis
- ▶ President of Kingston Process Metallurgy Inc.
 - Bench-scale & pilot-scale contract mineral processing and metallurgy research & development
 - Focus on novel process development for clients
- ▶ Adjunct Professor @ Queen's University





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Private Courses also available

- ▶ Past clients include
 - Banks & Investment Houses
 - Mining & Service Companies
 - Accounting & Consulting Firms
 - Government agencies & Crown Corps.
- ▶ Course content tailored to your needs

Basics of Geology, Mining, and Processing for * your name here *
Professional Development Seminar



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For more information:

Visit our  Group,

See our website <http://minebasics.ca/>

Or email us info@minebasics.ca

For tickets:

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