The Basics of Geology, Mining, & Processing

Basics of Geology, Mining, and Processing
Accredited for 12.5 hours of Professional Development CE

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mine.queensu.ca/Professional-Development/mine-basics
Objectives

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

Focus on integration of geology, mining, and processing

Basics of Geology, Mining, and Processing for the Investment Community
Professional Development Seminar
How will we do this?

- Teach technical background
- Relate our own personal experiences
- Review examples
Who should attend

- Financial analysts
- Non-technical professionals working for mining companies
- Natural-Resources government officials
- Private investors
Course content

Geology

- General geology
- Deposit characteristics
  - Mineralogy
  - Shape, Ore controls / Limits of ore
  - Size, grade and tonnage
- Focus on gold, base metals, uranium, diamonds, iron ore, coal
Course content

Resource Estimation & Reporting

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

Mining Methods

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

Basics of Geology, Mining, and Processing for the Investment Community
Professional Development Seminar
Milling processes & operations

Metal extraction & refining

Focus on metals, gold, nickel, copper, steel
Course content
Case Studies

- Due-diligence process
- Identification of red flags
- Review of technical reports, press releases, or corporate presentations
George McIsaac eng., P.Eng., Ph.D.

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

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
David A. Love
Ph.D.

- Geologist
  - Mineral deposits
  - Igneous rocks
  - Geochemical Exploration

- Independent consultant:
  - Geochemistry in Mineral Exploration, and Ore Deposit Geology

- Adjunct Professor @ Queen’s University

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
Chemical Process Metallurgist
  • Process Development
  • Process Analysis
  • Chemical Thermodynamics

President of Kingston Process Metallurgy Inc.
  • Bench-scale contract process metallurgy company
  • Focus on novel process development for clients

Adjunct Professor @ Queen’s University

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
Cost

- $1875 per person (plus GST)
- Group discounts
- Class notes and USB key
- Breakfast, lunch and coffee included
Private Courses also available

- Groups of 15 or more
- Past clients include
  - Banks & Investment Houses
  - Mining Companies
  - Accounting Firms
- Course content tailored to your needs

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Professional Development Seminar
For more information

Please contact
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