Schulich
School of Business
Executive Education Centre

SEEC Mining Academy

The Data-Driven Mine: Data Analytics in the Mining Industry

A comprehensive introduction on how to increase production, recovery and efficiency through data-driven business insights.

Unique course features include:

- Developed in collaboration with mining industry and data analytics experts
- Provides a deep understanding of the benefits of data analytics to operations
- Teaches how to drive decision-making through data-backed business insights
- Helps empower your team and organization with competitive advantage

What Participants Say About SEEC Programs:

SEEC helped us tremendously by developing an approach for our high potential and performing population that we implemented [which] proved to be material to the business as well as creating a 'WIN' culture within our organization.

Ian Pearce, former Chief Executive
Xstrata Nickel

"Excellent opportunity to learn and share with other individuals interested in becoming better leaders."

Leona Tarini, Resource Management Supervisor,
Ministry of Natural Resources and Forestry

"We learned a lot from this well arranged training program. This is a very comprehensive and helpful course."

Ms. Pan Haiyan, Engineer,
Shanxi Provincial Geological Exploration Bureau

Email us at *CustomSEECPrograms@schulich.yorku.ca*
or call us at 1-(416)-360-6546

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YORK UNIVERSITÉ UNIVERSITY

The Data-Driven Mine: Data Analytics in the Mining Industry

Unearth *your* competitive advantage.

Today's fast-paced business environment requires mining industry leaders to tackle long-standing industry challenges at a pace and scale previously unseen. Immense opportunities exist for those companies capable of making dynamic decisions based on sound analysis and interpretation of data.

Assess opportunities and implement analytics in your own organization!

Focused on data-generated insights, this program introduces predictive analytics as a tool for decision making, and teaches participants the skills to interpret meaning and communicate results. Attendees will leave fully equipped to use analytics in their decisions in the global mining industry to increase productivity and efficiency, improve safety and lower costs. In short, they will become data-savvy leaders who drive business performance through the smart use of advanced analytics.

Top Take-Aways

1. Understand when and how data analytics can be applied to **create value** in a mining context.
2. Structure and formulate business problems to facilitate **data insights**.
3. Identify the **advantages, disadvantages and requirements** of using external versus internal data teams.
4. Interpret data analytics to **generate business solutions**.
5. **Communicate the results** of data analytics and their meaning to others.
6. Improve a struggling mining operation with **data-backed insights** in a business simulation.

Instructor

Ashutosh Agarwal serves as the Director for Manufacturing and Mining Practices at Uptake, a leading industrial-AI and enterprise software company. At Uptake, his team guides global manufacturing and mining companies towards excellence across the value chain by leveraging data from various sources within operations.

Who Should Attend

Developed specifically for mining industry executives and professionals, this program will be of interest to those in:

- Senior operational roles such as senior engineers, geologists, mill/mine managers and technical supervisors/superintendents
- Corporate roles such as environmental and sustainability professionals, corporate and business development managers, CFOs and investment decision makers
- Consultants and associates from EPC and EPCM firms and from non-technical consulting firms; environmental and sustainability consultants

Hands-on Experiential Learning!

Participants will work in teams to apply advanced data analytics to a business simulation for improving operations.

Findings and recommendations will be presented to a panel of industry experts from companies such as Yamana Gold, Anaconda Mining, Torex Gold Resources and others!

Overview of Learning

Data, Technology and Analytics

How can mining industry executives and professionals create business intelligence from data? Discussion of the terminology, tools and applications of data analytics.

- Understand when and how data analytics can be useful in the context of the limitations of statistical analysis
- Appreciate the link between various technologies such as AI and the IoT and data analytics

Leading with Analytics

Examples of the use of data analytics by mining leaders as part of sound decision making processes. Identification of appropriate business problems and assessment of opportunities in your own organization.

- Understand how data analytics can be applied to mining business problems
- Leverage your business expertise paired with data analytics to maximize impact
- Understand the key message of the data
- Learn to use data to create insights and business intelligence

Communicating Data in Mining

Participants learn about communication strategies and how to present their data-based business solutions to various stakeholders.

- Understand the key elements of a compelling presentation
- Appreciate what executives and other decision makers are really looking for
- Get feedback from a panel of mining industry experts

Flexible Program Model

- **Global delivery :** This program can be offered in any country and at any location in the world, including at mine sites or completely online.
- **Customized to fit organizational needs**: This program can be tailored to fit specific organizational requirements.

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