



MINING MODELING 1:

(CREATE A DYNAMIC MODEL OF A STAND-ALONE MINING PROJECT)

SUMMARY

This course focuses on the skills required to design and create a dynamic financial model of a mining project that is developing an open-pit mine.

Issues related to mining, milling and processing will be discussed.

The course material includes model design, logic, construction and operational concepts to create a best-in-class financial model of a mining project.

Various intermediate Excel tools along with helpful keyboard shortcuts will also be covered throughout the course.

Timing: This course requires 1 day

Experts in financial modeling
training and consulting

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LEARNING TOPICS:

Design and Structure a Financial Model

- ✓ Design and layout a mining project model clearly and logically
- ✓ Discuss the need for a model to serve as a marketing tool
- ✓ Create clearly defined inputs and assumptions sections

Build Powerful Scenarios and Financial Statements

- ✓ Use switches to create effective scenarios and value drivers
- ✓ Forecast and build-up the project's revenues and expenses
- ✓ Construct all necessary schedules, including:
 - Mine sequencing showing waste, ore and strip ratio
 - Commodity pricing for primary and secondary metals
 - Variable and fixed operating costs (including mining, milling and refining charges)
 - Development and maintenance capital costs
 - Depreciation schedule using a unit of production method
 - Resource tax (includes regional resource tax rules)
 - Working capital schedule
- ✓ Discuss by-product accounting for secondary metals
- ✓ Develop a cash flow projection for the mining project

Evaluate the Project and the Company

- ✓ Incorporate a schedule to evaluate the project's returns:
 - Pre-Tax Unlevered Free Cash Flow (UFCF)
 - Net Present Value (NPV)
- ✓ Use various sensitivity tools to sensitize the project's returns
- ✓ Conditionally format output tables to highlight specified results
- ✓ Build a dynamic summary page to display results for the project

*Design and create a financial model to determine the value of
a mining project developing an open-pit mine*