

**PIVOTAL** 180



# **MINING & CRITICAL MINERALS**

**MODELING COURSE**

# Mining & Critical Minerals Modeling Course

## Why Learn With Pivotal180?

### World-Class Course Content

- Build and refine financial models for mining and critical minerals
- Instruction from top industry experts and academics, available in various formats

### Open to All Experience Levels

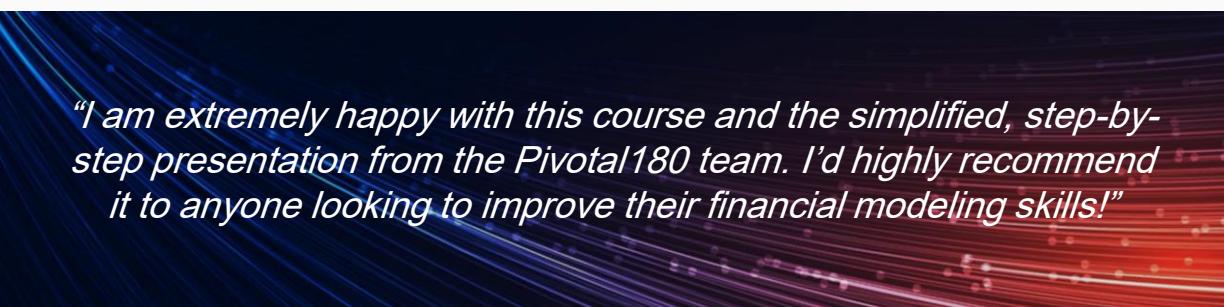
- Tailored for banking and investment professionals, and those switching careers
- Ideal for students targeting the project finance sector

### Continuous Online Access

- One year of access to our online lessons including videos, slides, and model walk-through
- Highly discounted annual subscription renewal
- Includes a course completion certificate

### Practical Transaction Skills

- Hands-on learning of financial modeling
- Grasp key drivers of mining, processing and transport costs
- Understand how financiers and investors assess mining deals
- Optimize models to satisfy investor criteria
- Generate outputs for informed decision-making



*"I am extremely happy with this course and the simplified, step-by-step presentation from the Pivotal180 team. I'd highly recommend it to anyone looking to improve their financial modeling skills!"*

# Mining & Critical Minerals Modeling Course

## Course Syllabus

### Pre-course Material

Excel functions, formulas and shortcuts | Best practice modeling concepts | Review of project finance concepts | Best practice principles

### Mining Introduction & Project Phases

What is project finance | Model overview | Phasing of mining deals | Roles of participants in mining deals

### Physical Operations

Mining process | Ore mined, waste mined, and strip ratios | Reserve tail ratio (RTR) | Processing capacity and ramp up | Mining & processing, variable grade calculations | Product transportation to market | End of mine life and rehabilitation | Physical operations and sensitivities

### Revenue

Spot revenue | Nominal versus real calculations | Hedging | Forward curves | Key unit metrics for revenue calculations | Sensitivities and lender approach with hedging

### Operating Costs

Fixed versus variable costs | Mining costs | Processing costs | Transportation costs | Rehabilitation and reserves | Unit metrics and graphing

### Unlevered Returns and Debt

Unlevered returns (real and nominal) for mines | Term loan debt recap | Loan life coverage ratio (LLCR) | Project life coverage ratio (PLCR) | Reserve life coverage ratio (RLCR) | Cash sweeps and mandatory cash share | Construction funding | Pre-operational cashflows

Mining and  
Critical Minerals

# Mining & Critical Minerals Modeling Course

## Course Delivery Options

### IN-PERSON

- Four days, ~6 hours per day
- Private and public classes
- Homework to ensure and deepen understanding

### LIVE STREAM

- Eight 3-hour sessions over 4 to 5 weeks
- Small class sizes (max ~12)
- Homework + class recordings

### ONLINE SELF-PACED

- ~8 hours completion time
- Learn on your schedule
- Complete model walk-through + chapter quizzes

## The Pivotal180 Difference

**Unrivaled experience.** The Pivotal180 team members have decades of experience as principal investors, advisors, university professors, and have held board positions in multiple companies.

**More than Excel coding.** Learn how to analyze deals. We teach market structures, policy and incentives, financial modeling, how to read legal documents, and deal management based on real experience, ensuring students deepen their skills and understanding.

**The most tailored courses in the market.** Learning in context works. Courses can be tailored to reflect your business, including incorporation of actual deals, transaction documents, and country-specific tax regimes.

**Access to online learning platform.** All participants in our in-person and live-stream courses receive free access to our online learning courses to dive deeper into topics, including access to discussion forums for ongoing questions.

**Dedicated to training.** We teach over 1,500 students each year for some of the world's premier investors. Clients include Macquarie, GIP, Santander, Engie, CRC-IB, Nomura, Generate Capital, Lendlease, NY Green Bank, and more.

## Current Courses Available

### Project Finance

- [Introduction to PF Modeling](#)
- [PF & Infrastructure Modeling](#)
- [Renewable Energy PF Modeling](#)
- [Advanced PF Debt Modeling](#)

### Tax Equity

- [Tax Equity & Hybrid Financial Modeling](#)
- [Tax Equity Essentials](#)

### Industry & Fundamentals

- [Battery Storage Financial Modeling](#)
- [Mining/Critical Minerals PF Modeling](#)
- [Financial Modeling Fundamentals](#)
- [A Quick Look Into Data Centers](#)