



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

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

Open to All Experience Levels

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

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 all investor criteria
- Generate outputs for informed decision-making

Thank you for providing such an exceptional course on Project Finance Modeling. Both trainers were extremely helpful and positive, which made the course that much greater. I want to especially mention the Macro lesson. That piece really tied the course together for me and further demonstrated Pivotal180's dedication to excellence.

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

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Critical Minerals

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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 have decades of experience as principal investors, advisors, and 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](#)