



MINING FOR NON-MINERS (ADVANCED UNDERGROUND COAL)

COURSE CONTENT

Introduction

Underground coal mining overview, performance & technology, regional overview, and asset value process.

Geology & Exploration

Coal geology, coal types & properties, exploration (process, methods & costs), modelling, considerations for design, and reporting.

Mining Systems

Bord & pillar (room & pillar), longwall, alternative systems, equipment, and cost estimation.

Mine Planning

Strategic planning process, concept planning, feasibility process, mine layout, equipment scheduling, and margin ranking.

Geotechnical

Assessments, ground support design (development & production), inputs into mine design, factors impacting mine operability, and multi-seam longwalls.

Ventilation & Gas

Reservoirs, managing uncertainty, planning, drainage, and economics.

Engineering & Short Term Planning

Mine access, equipment requirements, clearance systems, equipment selection, mining services, production & maintenance planning.

Health & Safety

Hazards & risks, statistics, managing risk, incident case study, incident investigations.

Financial Assessments

Cost and revenue drivers, capital requirements, financial tools, and decision making.

Overview

This course provides those from a non-mining background with a comprehensive understanding of underground coal mining. The course details both technical and operational aspects of an underground operation. The course pays particular attention to the planning processes and provides attendees with a clear insight into the business drivers for underground coal mines.

Learning Outcomes

- Understand financial and technical drivers that impact an underground asset.
- Learn how strategic planning processes add value to an underground operation.
- Be able to critically assess the choice of mining method for a given deposit.
- Appreciate the technical challenges (geotechnical, ventilation & gas) faced by underground operations, and actions typically taken to mitigate technical risks.

Who is the Course For?

- Information Technology Professionals
- Accountants
- Marketers
- Human Resource Specialists
- Legal Professionals
- Investors
- Bankers
- Management Consultants
- Equipment Manufacturers

Delivery Mode

Classroom or Remote

Duration

Classroom - Two days

Remote - 15 hours (5 x 3 hour sessions)

Want to Learn More?

Contact training@rpmglobal.com