



# DRAGLINE MINING SYSTEMS

## COURSE CONTENT

### Dragline Mine Design

*Systematic mine planning process, and mining limit assessment using economic ranking criteria.*

### Dragline Key Components

*Typical configuration, dig & dump cycle, understanding dragline working envelope, and dragline buckets.*

### Dragline Operating Methods

*Range diagrams, pit layout, box cuts, single seam applications, multi-seam applications, use of dozers & throw blasting, handling geotechnical & hydrological issues.*

### Dragline Productivity

*Calculating re-handle, productivity calculations, sensitivity to changing operating & design parameters (pit width / seam dip / swell/ ramp placement etc), motion control & new technology, sensitivity to operators & design procedures.*

### Dragline Scheduling

*Meeting production targets, blending constraints, and dragline sequencing.*

### Economics & Decision Making

*Evaluation techniques, marginal cost analysis, time value of money, and discounted average cost.*

## Overview

The aim of this course is to provide a comprehensive overview of planning and operational methods associated with dragline mining systems. The course focuses on system efficiencies and the importance of dragline engineering decision-making based on costs. Participants will use DragSim in the course workshops to simulate and analyse various planning scenarios.

## Learning Outcomes

- Understand frequently used dragline terminology.
- Describe the key elements of efficient dragline systems.
- Describe the practices involved in systematic mine planning.
- Learn how to make engineering decisions based on costs.
- Learn about various dragline mining methods involving single seam and multi seam applications.

## Who is the Course for?

- Mine Planning Engineers
- Planning Managers / Superintendents
- Senior Operational Personnel
- 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](mailto:training@rpmglobal.com)