DRAGLINE MINING SYSTEMS

**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

**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, boxcuts, 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.

**Delivery Mode**
Classroom

**Duration**
Two Days

**Want to Learn More?**
Contact training@rpmglobal.com