

# DRAGLINE MINING SYSTEMS

02-03 November, 2011 (USA City TBA)

## INTRODUCTION

The aim of this course is to provide a comprehensive overview of planning and operational methods associated with dragline mining systems. This course addresses issues to deal with the changing industry and focuses on cost efficiencies and the importance of dragline engineering decision-making based on costs. It presents planning and operational methods of dragline mining systems, and includes aspects of efficient mine planning such as integrated mine design with trucks and shovel and other equipment, mine scheduling, blending, and cast blasting. Recent case studies prepared for open pit mines are also included. At the completion of this course participants will take away a set of practical solutions that can be utilized back in the workplace.

## WHO SHOULD ATTEND?

This course is recommended for Managers, Engineers, Geologists, Scientists and Operators involved with, or having an interest in, dragline operations.

## COURSE CONTENT

### Dragline Mine Design

- Systematic mine planning process, mining limit assessment using economic ranking criteria

### Dragline Key Components

- Typical configuration, dig & dump cycle, understanding dragline working envelope, dragline buckets

### Dragline Operating Methods

- Introduction to range diagrams, pit layout, boxcuts, Single Seam Applications, Multi Seam Applications, use of dozers & throw blasting, geotechnical and hydrological issues, use of range diagrams as a dragline engineering planning tool

### Dragline Productivity

- Calculating re-handle, productivity calculations, sensitivity to changing operating & design parameters, dragline motion control & new technology, sensitivity to operators & design procedure

### Dragline Scheduling

- Meeting production targets, blending constraints, dragline sequencing

### Economics & Decision-making

- Evaluation techniques, marginal cost analysis, time value of money, discounted average cost

## DELIVERY METHOD

Interactive classroom-style delivery - numerous interactive case studies are used throughout the course, supplemented with a variety of multi-media presentations and practical hands-on workshops, to ensure maximum audience participation and to optimize the learning experience.

*“Learn how to maximize the real benefits and gains you can achieve through efficient and effective use of your dragline mining systems”*

## LEARNING OUTCOMES

At the completion of this course participants will be able to:

- Understand frequently used terminology
- Describe the key elements of efficient dragline systems
- Describe the practices involved in systematic mine planning
- Describe dragline operations involving single seam and multi seam applications
- Explain the importance of dragline engineering decision-making based on costs

## ON-SITE / CUSTOMIZED OPTIONS

### THE ADVANTAGES OF YOUR ORGANIZATION

- On-site training is more economical for a large group
- Training days can be at a convenient, unique time and location
- Content can be customized to suit a client's specific requirements to address attendees needs
- Confidential information can flow freely giving maximum learning outcomes



## TESTIMONIES

*“A very good introduction to dragline operations.”*

*“Great course - certainly assisted with ideas of improving production. Also gave me an insight into what language mining engineers talk!”*

*“A very interesting and informative course - thought provoking.”*

*“Excellent course, focused on the bigger picture and will help me to fit my knowledge into the relevant overall framework.”*



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allen &  
holt**



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# DRAGLINE MINING SYSTEMS

For over 20 years, Runge has been providing high quality training courses to the Mining Industry worldwide.

Our courses are recognized as unique in the Industry. The knowledge and challenges that Runge consultants deal with daily in project work and software implementations is captured and reflected in our high quality training courses.

Numbers are restricted to enhance learning, and participants can share experiences gained from their respective organizations. Runge's courses cover mine business planning and fall into the following major categories:

- Mining for Non Miners ( Coal and/or Metals Focus )
- Mining Economics
- Integrated Open Pit Coal Mine Planning
- Truck and Shovel Mining Systems
- Dragline Mining Systems

Other mining related courses could be developed and delivered on request. Runge can work with you to meet your training requirements. Please contact our Training Department to discuss your specific needs in more detail.



## YES! PLEASE REGISTER ME FOR DRAGLINE MINING SYSTEMS

Yes! Please send me more information on other courses.

Name:	
Position:	
Department:	
Company:	
Site:	
Address:	
City:	
State/Province:	Postal Code/Zip Code:
Ph:	Fax:
Email:	
Purchase Order No:	
Would you please also take a minute to fill out the following questions - this will help us to ensure that your expectations can be taken into account when planning the course program.	
What is your educational background? _____	
What is your work background? _____	
What is your current job role? _____	
How many years have you worked in this role or similar roles? _____	

### DATE

02-03 November, 2011

### VENUE

USA City TBA

### TIME

8:30 AM - 5:00 PM

*Course attendance is limited to a maximum of 15 people. Please bring laptop for workshops.*

Contact: DIANE KINCAID  
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### REGISTRATION FEE

**\$1,500\*\*p.p. US\$ or CAN\$ \*\* Price excludes all other taxes.**

*Fee includes tuition, comprehensive course notes, workshop assignments and solutions, morning and afternoon coffee, lunch and certificate of completion. Once your booking is received your place is automatically reserved, and we will send you a confirmation of enrolment. Unfortunately we do not accept payment by credit card. Payment is made on invoice only.*

### CANCELLATION POLICY

*Should you be unable to attend, a substitute delegate may attend, at no extra charge. Registration may be cancelled at any time with minimum 30 days notice without cost penalty. Cancellations made less than 30 days before the course will receive a refund less a \$500 (excl of gst) service charge. Runge Limited reserves the right to cancel a course if there are not enough participants, in which case registration fees are fully refundable. Therefore, we advise that you do not make travel arrangements sooner than 30 days prior to class date.*