

TRUCK AND SHOVEL MINING SYSTEMS

25-26 August, 2011 Calgary Canada | 15-16 November, 2011 Denver

“Through efficient planning and operational methods of truck and loader mining systems, you will see how you can provide a direct impact on your bottom line results”

INTRODUCTION

The aim of this course is to provide a comprehensive overview of the planning and operational methods associated with truck and loader management in open cut mines.

During the course, participants will build a haulage simulation model. Using this model they will then learn how to manipulate operating techniques to maximize fleet productivity and minimize unit-mining costs.

WHO SHOULD ATTEND?

The course is directed at technical and field staff involved in truck and loader planning and operation, including:

- Mine planning engineers
- Senior field personnel
- Technical and financial personnel
- Equipment supplier personnel
- Maintenance and support personnel
- Mine surveyors



- Truck/loader match - how many passes?
- Shift operating schedules
- Haul ramp gradient
- Road rolling resistance/ tyre selection
- Other operational factors

DELIVERY METHOD

Classroom-style delivery with a heavy emphasis on workshops, participant involvement and case studies.

LEARNING OUTCOMES

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

- Understand the factors that impact on fleet productivity and cost.
- Design the layout of surface mines to suit equipment characteristics and maximize equipment productivities.
- Build a haulage model to simulate loading & hauling operations.
- Use a haulage model for equipment selection & operating decisions and to investigate options for maximizing fleet performance and minimizing cost.

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

COURSE CONTENT

Operating Techniques

- Pit working area dimensions
- Maintaining bench grade
- Haulroad design
- Haulroad construction & maintenance
- Loading techniques
- Truck dumping

Building a Haulage Model

- Overview of model software

Productivity Estimation

- Truck productivity
- Loader productivity
- Fleet productivity

Mining Economics

- Equipment costing
- Discounted cash flow analysis
- Discounted average cost

Factors Affecting Fleet Productivity & Cost

- Loader bucket size
- Loading philosophy - single or double sided loading



TRUCK AND SHOVEL 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 Please select the relevant checkbox

25-26 August, 2011 Calgary Canada

15-16 November, 2011 Denver USA

VENUE Please type 'x' in the relevant checkbox

| | |
|--|---|
| <input type="checkbox"/> Holiday Inn 4206 Macleod Trail South Calgary AB T2G 2R7 Phone: 403 287 2700 Fax: 403 243 4721 | <input type="checkbox"/> Hampton Inn 137 S Union Boulevard Lakewood, Colorado USA 80228 Phone: 303 969 9900 |
|--|---|

TIME
8:30 AM - 5:00 PM

Computer software products are you familiar with?

Excel not familiar have used once or twice proficient

TALPAC not familiar have used once or twice proficient

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

Contact: DIANE KINCAID
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REGISTRATION FEE

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

Fee includes tuition, comprehensive course notes, workshop assignments, 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.