

# THE BUSINESS OF UNDERGROUND COAL MINING

24-25 January, 2012 Brisbane | 01-02 May, 2012 Brisbane

## INTRODUCTION

The aim of this course is to provide professionals and para-professionals who interact within the underground coal mining business with a foundational understanding of the fundamentals of underground coal mining. As a result of attending this course participants will gain a clear understanding of both the technical and operational aspects of an underground operation. The course pays particular attention to strategic planning processes and provides attendees with a clear insight into the business drivers for underground mines.

## WHO SHOULD ATTEND?

The course is aimed at professionals, para-professionals and line management who interact with underground operations at a business, technical or operational level. The course is also designed to meet the needs of graduates and technical staff who may be considering a career in the underground sector.

## DELIVERY METHOD

Runge's Professional Development courses are presented through an interactive classroom-style delivery, utilising numerous case studies throughout the course. These are supplemented with a variety of multi-media presentations and practical hands-on workshops, ensuring maximum attendee participation to optimise the learning experience.

## LEARNING OUTCOMES

At the completion of this course participants will:

- Understand the financial and technical drivers that impact an underground asset
- Understand how strategic planning processes add value to 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

## COURSE CONTENT

### Module 1: General Overview

### Module 2: Geology & Exploration

- Review of Coal Geology
- Exploration and Modeling
- Geological considerations for UG mine design
- JORC - Resource & Reserves reporting

*“Develop an understanding of structured strategic planning and the primary financial fundamentals and drivers required to deliver a profitable underground operation”*



### Module 3: Mining Systems

- Methodologies
- Equipment
- Capital estimation

### Module 4: Mine Planning

- Strategic planning process
- Study processes
- Operational planning

### Module 5: Geotechnical

- Geotechnical assessments
- Fundamental ground support design considerations, for developments & longwalls
- Geotechnical factors impacting mine design, operability and profitability

### Module 6: Ventilation & Gas

- Australian coal seam gas reservoirs
- Managing uncertainty
- Effective ventilation & gas planning
- Ventilation & gas economics

### Module 7: Engineering Services & Short Term Planning

- Mine access options and support equipment
- Effective production & maintenance planning
- Coal clearance systems
- Mining services

### Module 8: Health & Safety

- Hazards, risks and statistics
- Managing H&S and business risks
- Incident investigations

### Module 9: Financial Assessments

- Underground cost and revenue drivers
- Capital requirements for a new operation
- Financial tools
- Financial analysis

# THE BUSINESS OF UNDERGROUND COAL MINING

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

Our courses are recognised 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 organisations. 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
- Coal Seam Gas Reservoir Assessment
- 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.



## DATE

- 24-25 January, 2012 Brisbane Australia
- 01-02 May, 2012 Brisbane Australia

## VENUE

Runge Limited  
Level 12  
333 Ann Street, Brisbane  
QLD 4000 Australia

## TIME

8:30 AM - 5:00 PM

*Course limited to a maximum of 25 people.*

## YES! PLEASE REGISTER ME FOR THE BUSINESS OF UNDERGROUND COAL MINING

Yes! Please send me more information on other courses.

Name :	
Position :	
Department :	
Company :	
Site :	
Billing Address :	
City :	
State :	Postcode :
Ph :	Fax :
Email :	
Purchase Order No. :	

### CREDIT CARD DETAILS

<input type="checkbox"/> Bankcard	<input type="checkbox"/> Mastercard	<input type="checkbox"/> Visa	<input type="checkbox"/> American Express
Name on Card :		Expires on : /	
Card Number :			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

SIGNATURE : \_\_\_\_\_

### CANCELLATION POLICY

Registration may be transferred or cancelled with minimum 14 days' notice without cost penalty. Should you be unable to attend with less than 14 days before the course, a substitute delegate may attend at no extra charge. Alternatively, you may transfer your registration to another course date with an added service charge of \$200 per day of course (excl of gst). Runge Limited reserves the right to cancel a course at any time, in which case registration fees are fully refundable.

### REGISTRATION FEE

**\$2,750 p.p. (ex GST)**

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.

Contact: Linda Tat or Suzanne Hammelmann  
Phone: +61 7 3100 7200  
Fax: +61 7 3100 7297  
Email: [training@runge.com.au](mailto:training@runge.com.au)  
GPO Box 2774, Brisbane, Qld 4001